

TEMPERATURE PROFILES
IN THE MUSKOKA-HALIBURTON
STUDY LAKES (1976-1982)

R.A. Reid, B. Locke and R. Girard

DATA REPORT DR 83/4

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DATA REPORT SERIES

The data presented in this report were collected by staff of the Water Resources Branch of the Ontario Ministry of the Environment as part of the Lakeshore Capacity Study or the Acid Precipitation in Ontario Study. This unreviewed report does not necessarily reflect the views or opinions of the Ontario Ministry of the Environment.

TEMPERATURE PROFILES
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STUDY LAKES (1976-1982)

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DATA REPORT DR 83/4

PREFACE

The unpublished Data Report Series is intended as a readily available source of basic data collected for lakes and watersheds in the Muskoka-Haliburton area of Ontario. These data were collected as part of the Lakeshore Capacity Study and/or the Acid Precipitation in Ontario Study.

The limnological portion of the Lakeshore Capacity Study (1975-81) was initiated to investigate the relationships between lakeshore development and lake trophic status in low ionic strength Precambrian lakes. The Acid Precipitation in Ontario Study (1979-present) was initiated, in part, to investigate the effects of the deposition of strong acids on aquatic and terrestrial ecosystems in Ontario. The primary findings of these studies have been and will continue to be published as reviewed papers and technical reports.

ABSTRACT

Isotherm ($^{\circ}\text{C}$) maps are presented for the lakes studied as part of the Lakeshore Capacity Study and the Acid Precipitation in Ontario Study.

Reid, R.A., B. Locke and R. Girard. 1983. Temperature Profiles on the Muskoka-Haliburton Study Lakes (1976-1982). Ont. Min. Envir. Data Report 83/4.

Introduction

This report summarizes the temperature data collected from the study lakes of the trophic status component of the Lakeshore Capacity Study. Data were routinely collected from 1976 to 1982 from Blue Chalk, Chub, Dickie, Harp, Jerry and Red Chalk Lakes, collectively termed the "A" lakes and usually from 1976 to 1981 from Basshaunt, Bigwind, Buck, Crosson, Glen, Gullfeather, Little Clear, Solitaire and Walker Lakes, collectively termed the "B" lakes. Sampling of Heney and Plastic Lakes was initiated as part of the Acid Precipitation in Ontario Study in 1979. The methodology used in collection of this information is summarized by Scheider et al. (1983).

References

Scheider, W.A., R.A. Reid, B. Locke and L.D. Scott. 1983. Studies of lakes and watersheds in Muskoka-Haliburton, Ontario: Methodology. Ont. Min. Envir. Data Report 83/1.

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FIGURE 1

BLUE CHALK LAKE TEMPERATURE ($^{\circ}\text{C}$)

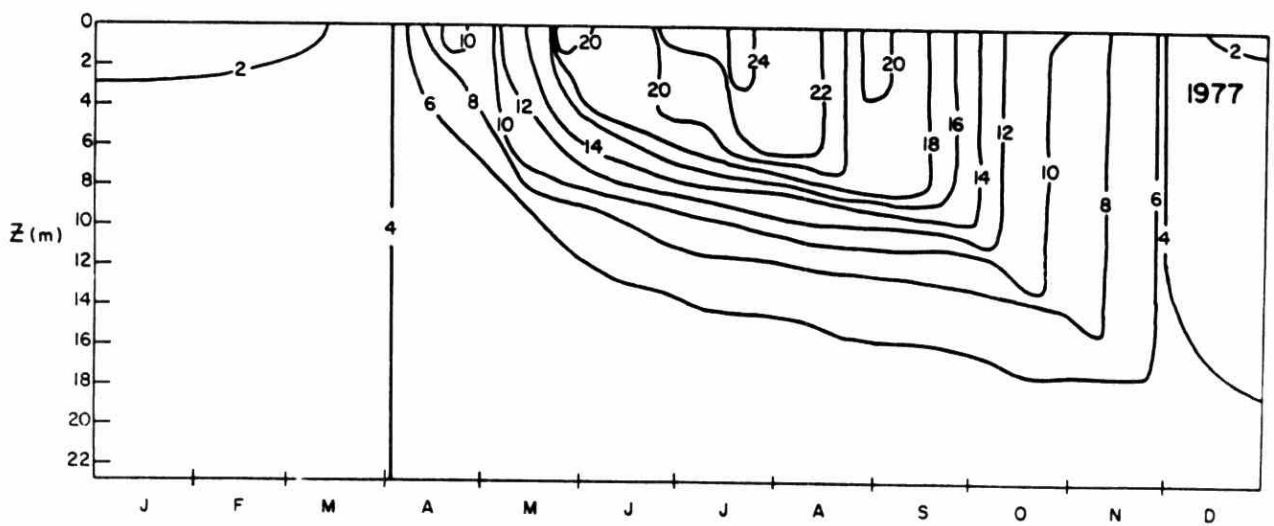
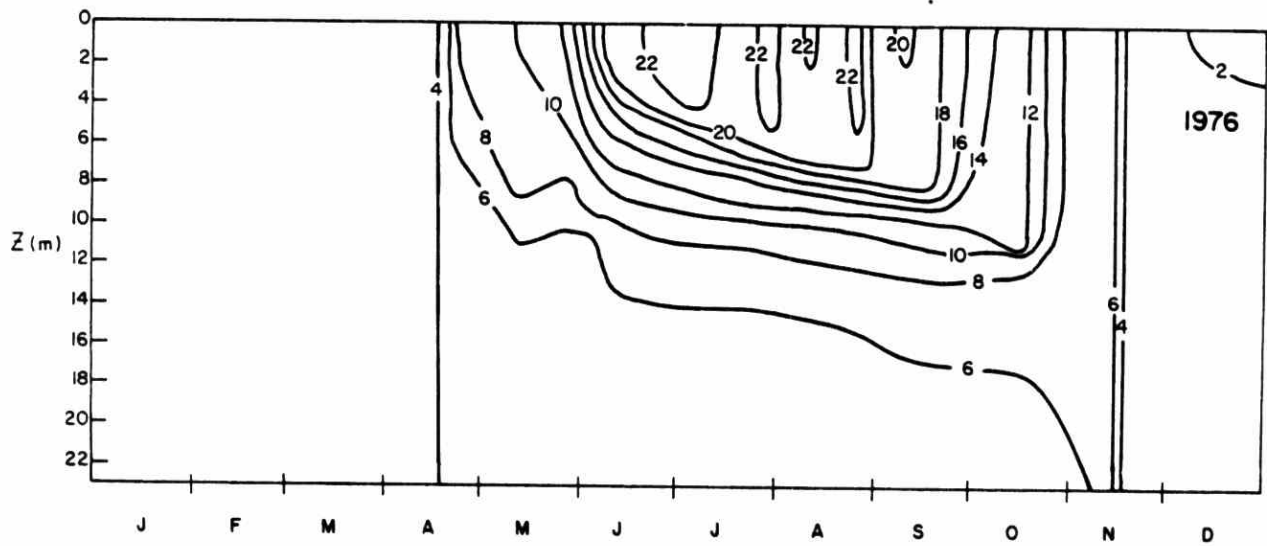


FIGURE 2

BLUE CHALK LAKE TEMPERATURE (°C)

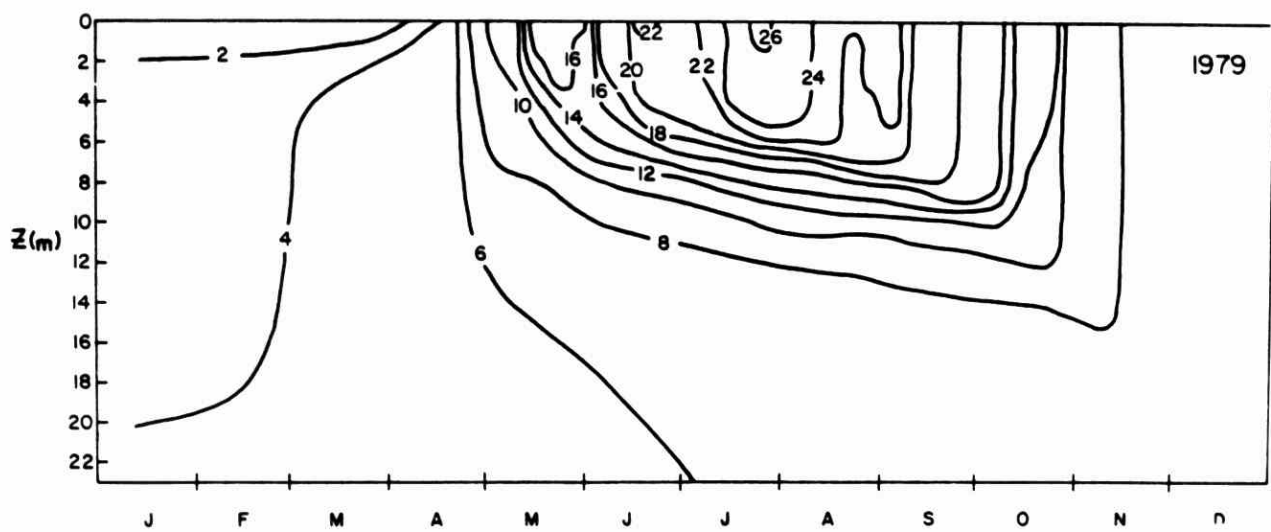
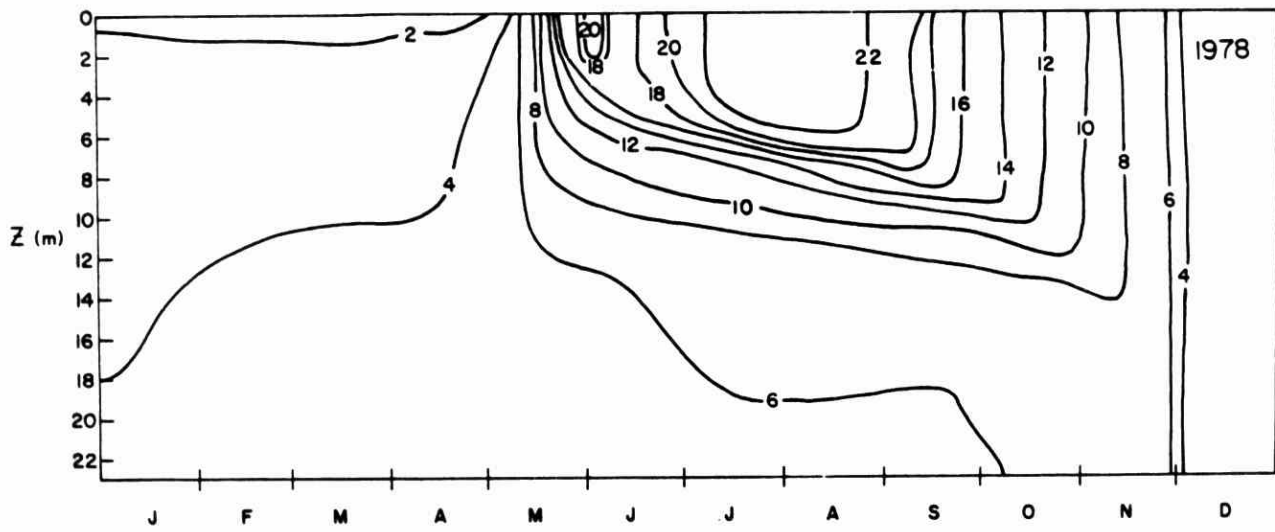


FIGURE 3

BLUE CHALK LAKE TEMPERATURE ($^{\circ}\text{C}$)

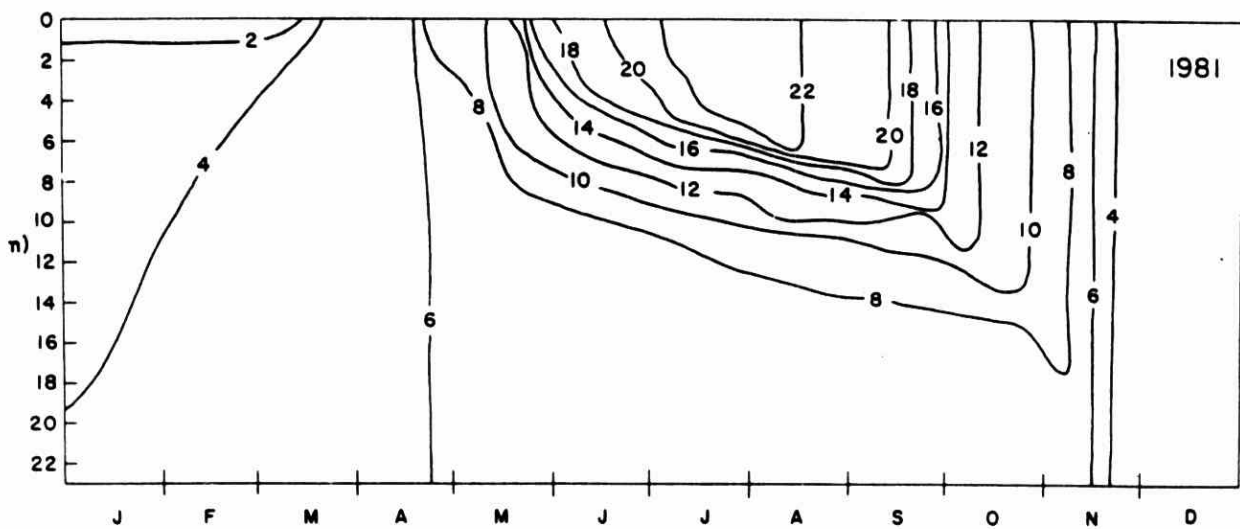
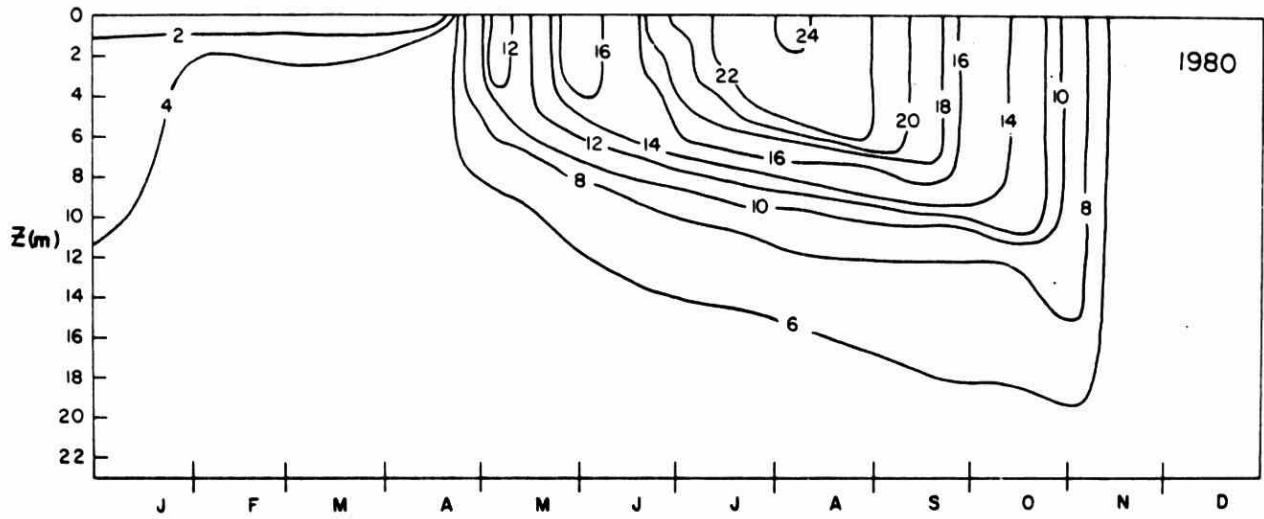


FIGURE 4

BLUE CHALK LAKE TEMPERATURE (°C)

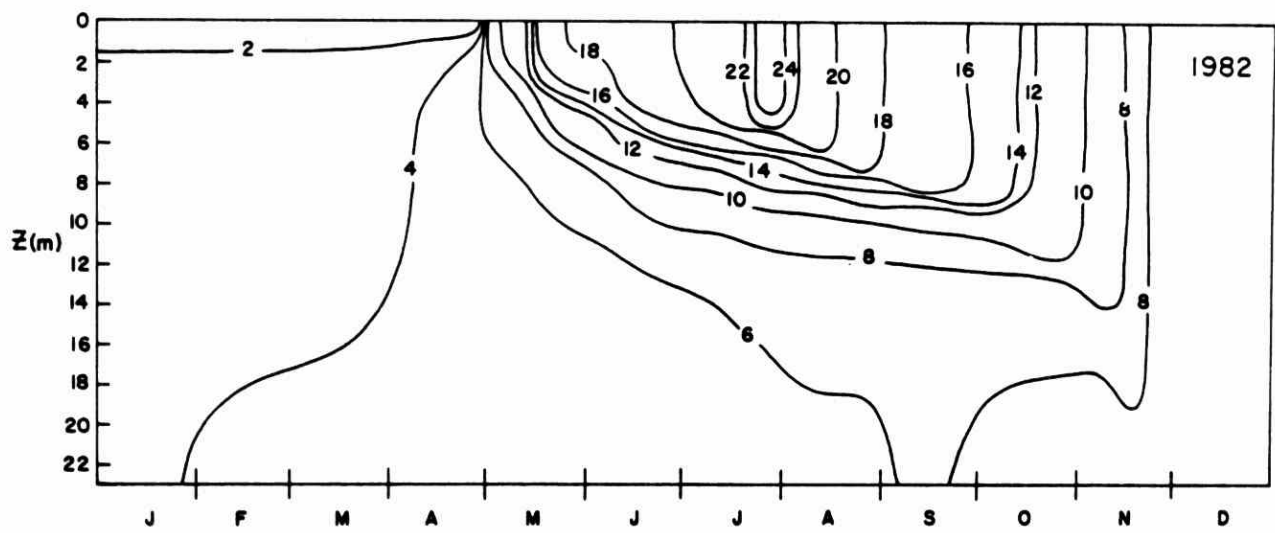


FIGURE 5

CHUB LAKE

TEMPERATURE (°C)

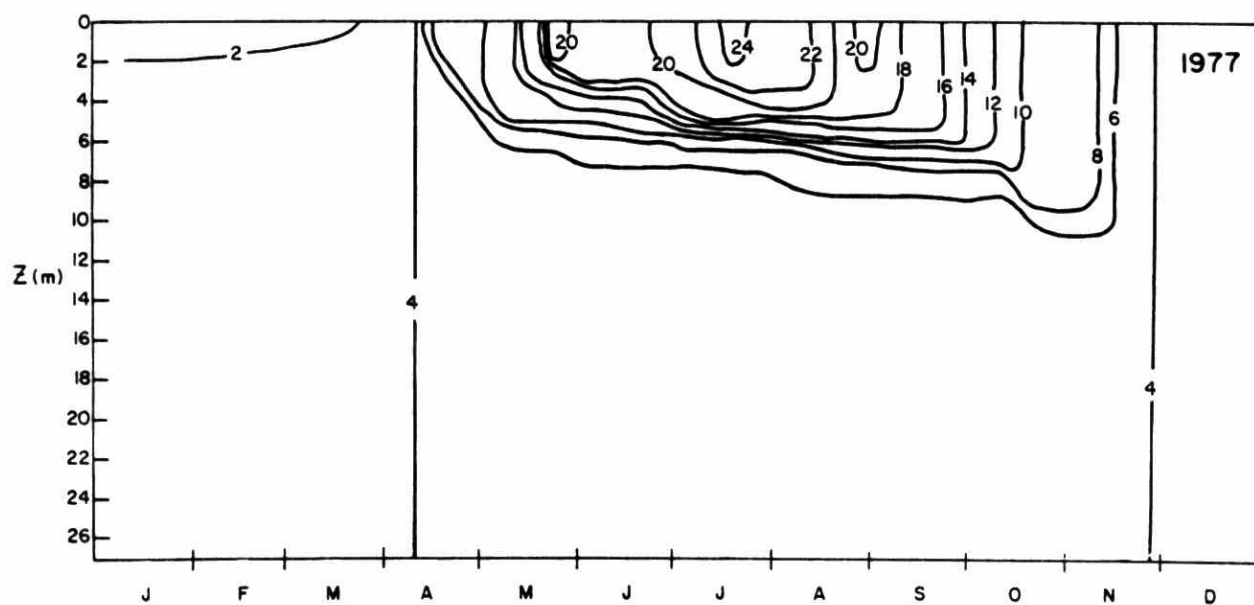
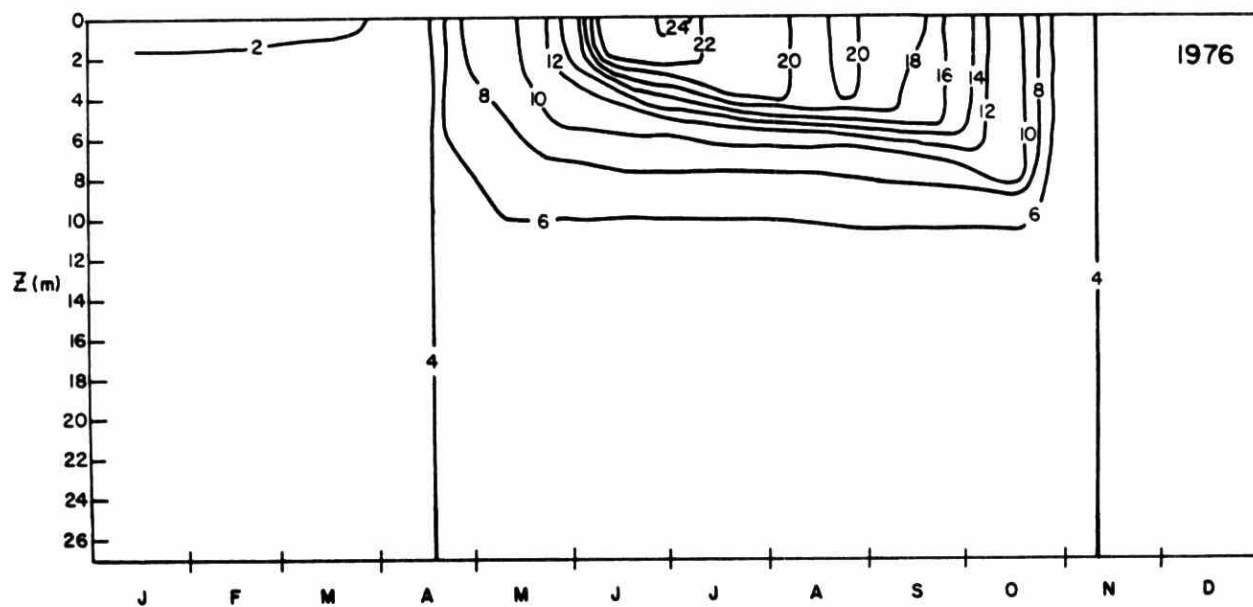


FIGURE 6

CHUB LAKE

TEMPERATURE (°C)

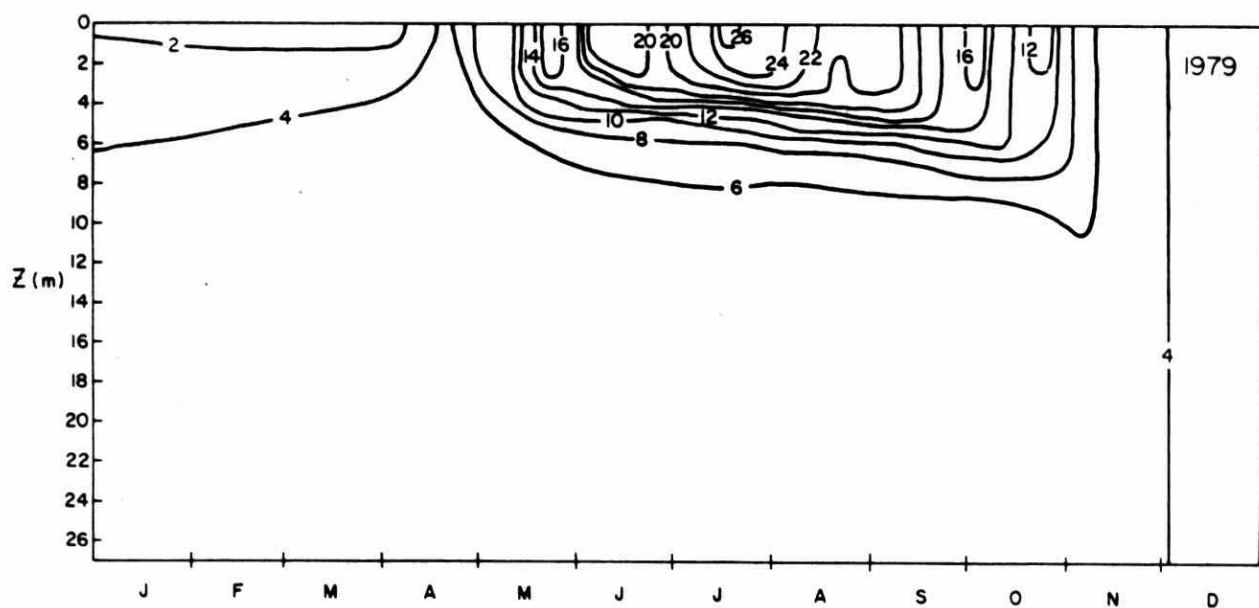
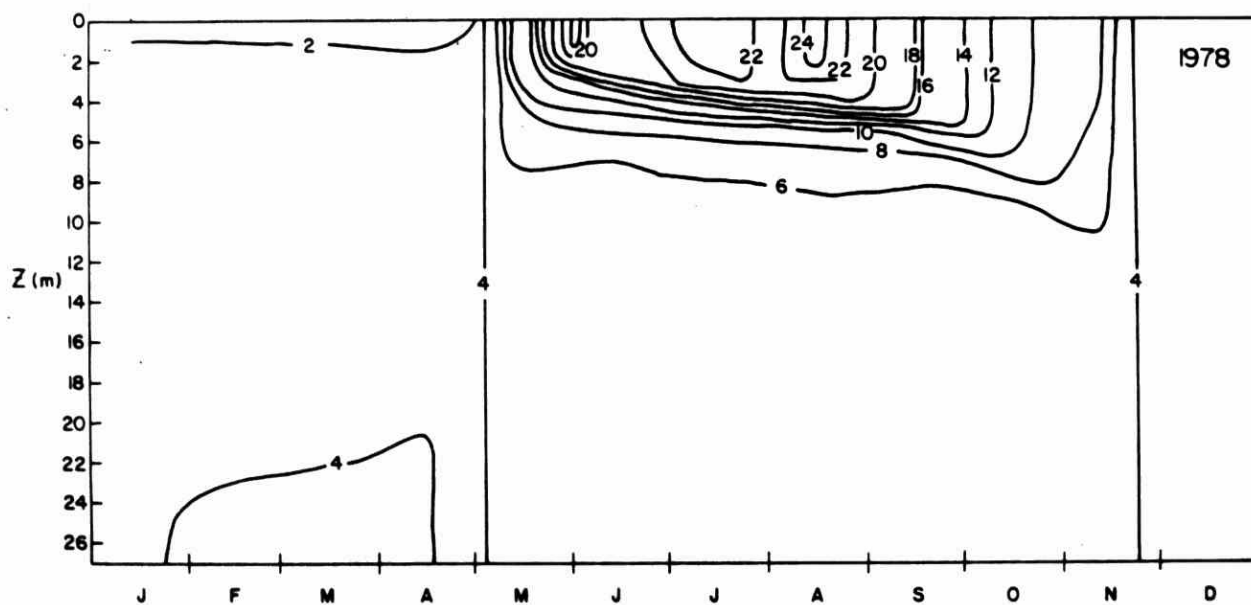


FIGURE 7

CHUB LAKE

TEMPERATURE (°C)

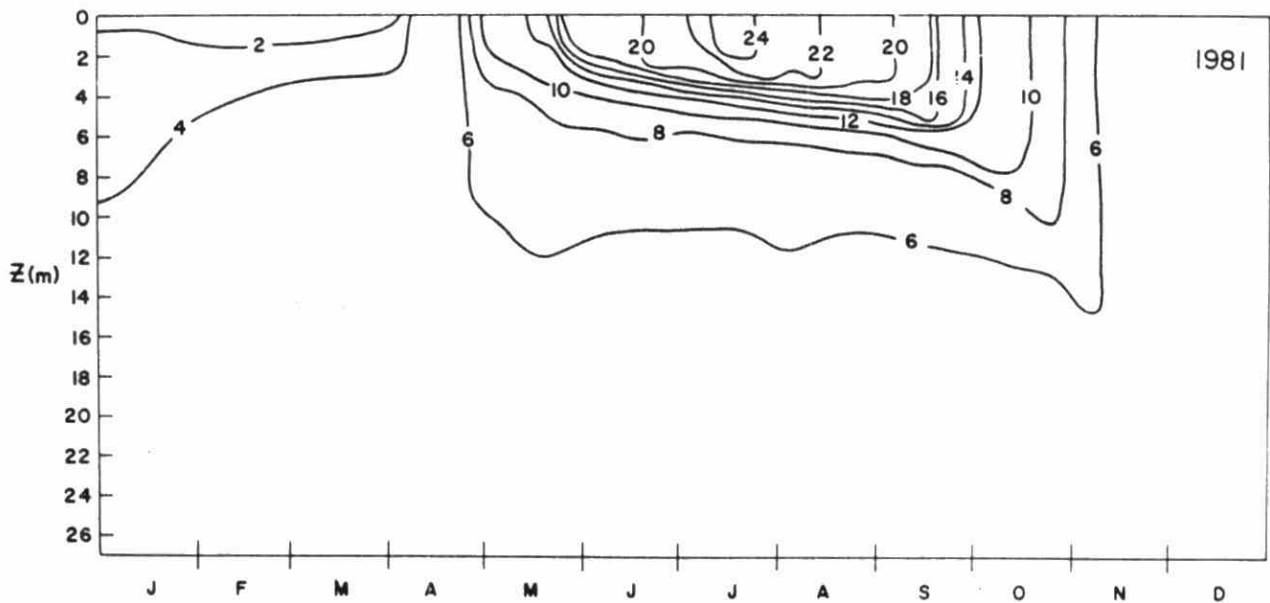
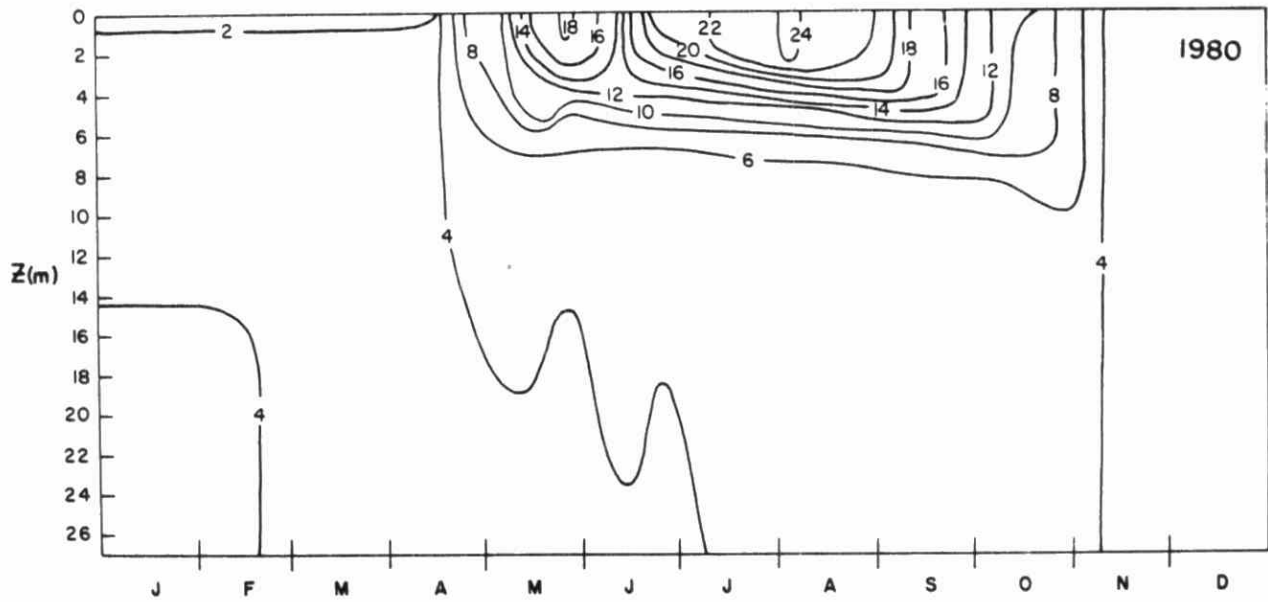


FIGURE 8

CHUB LAKE

TEMPERATURE (°C)

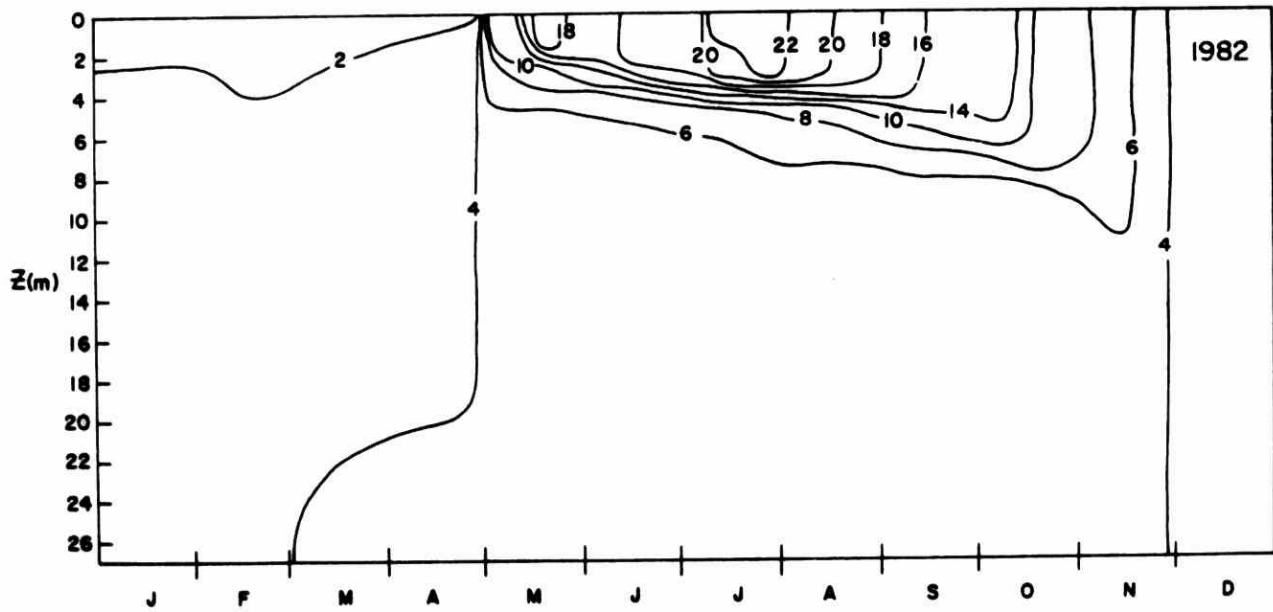


FIGURE 9

DICKIE LAKE TEMPERATURE ($^{\circ}\text{C}$)

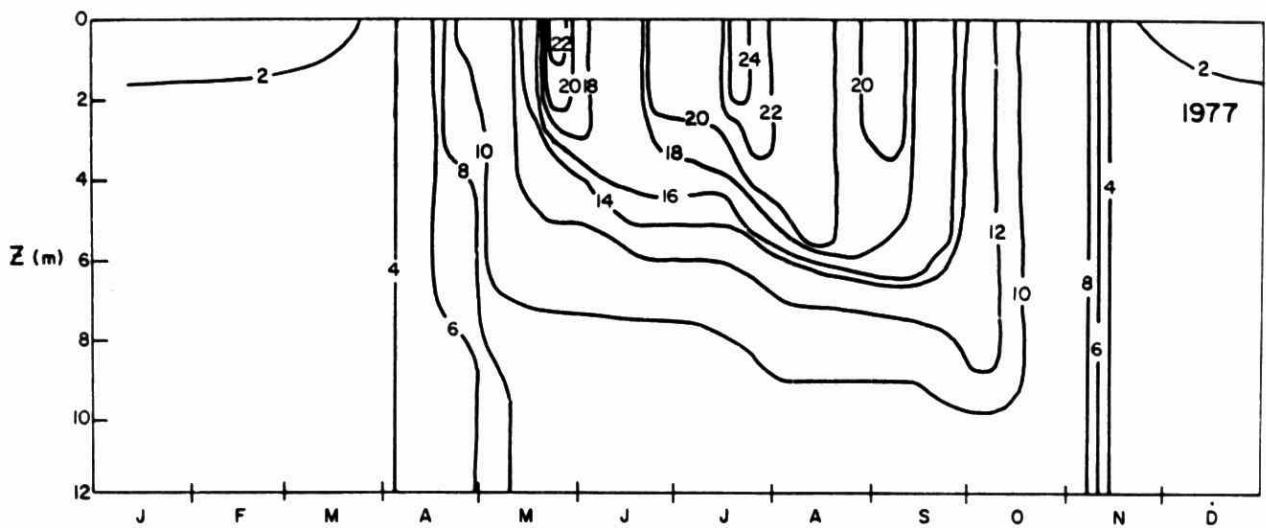
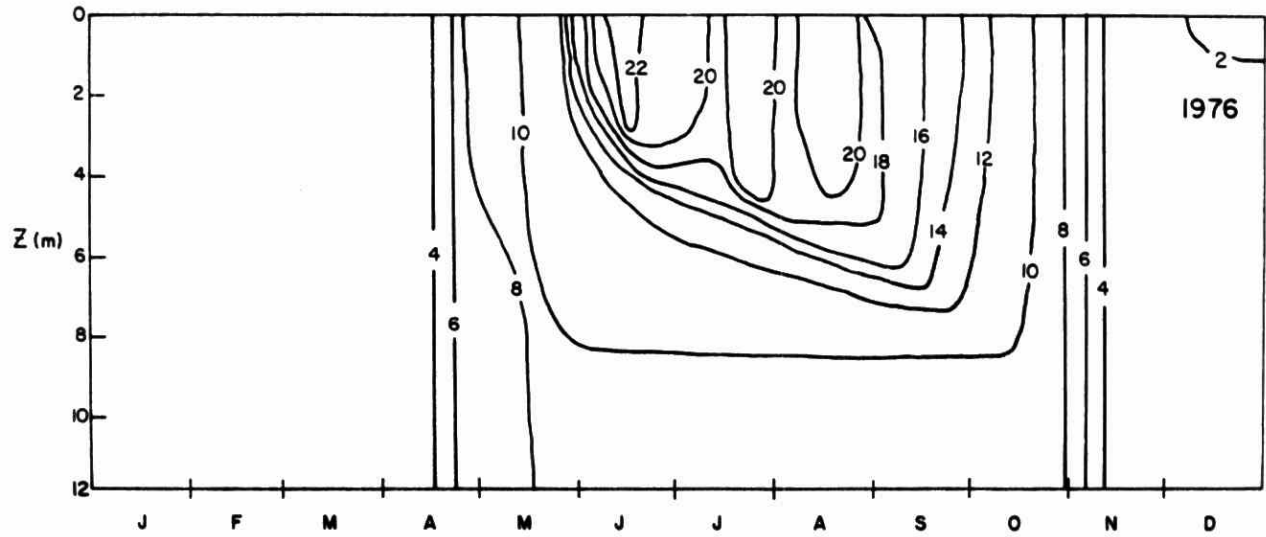


FIGURE 10

DICKIE LAKE TEMPERATURE ($^{\circ}\text{C}$)

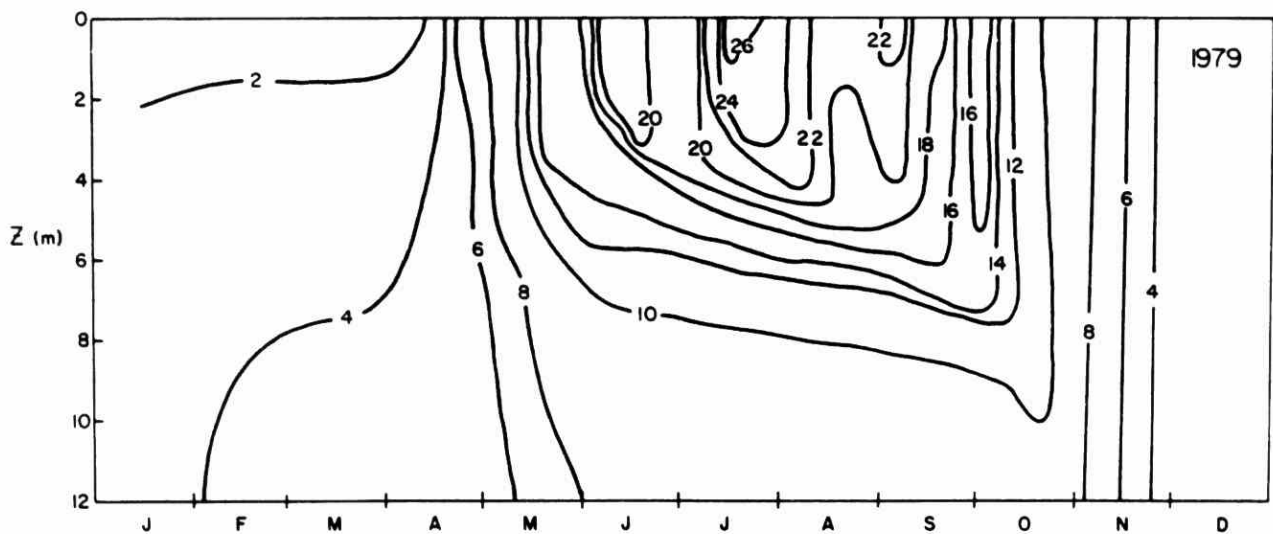
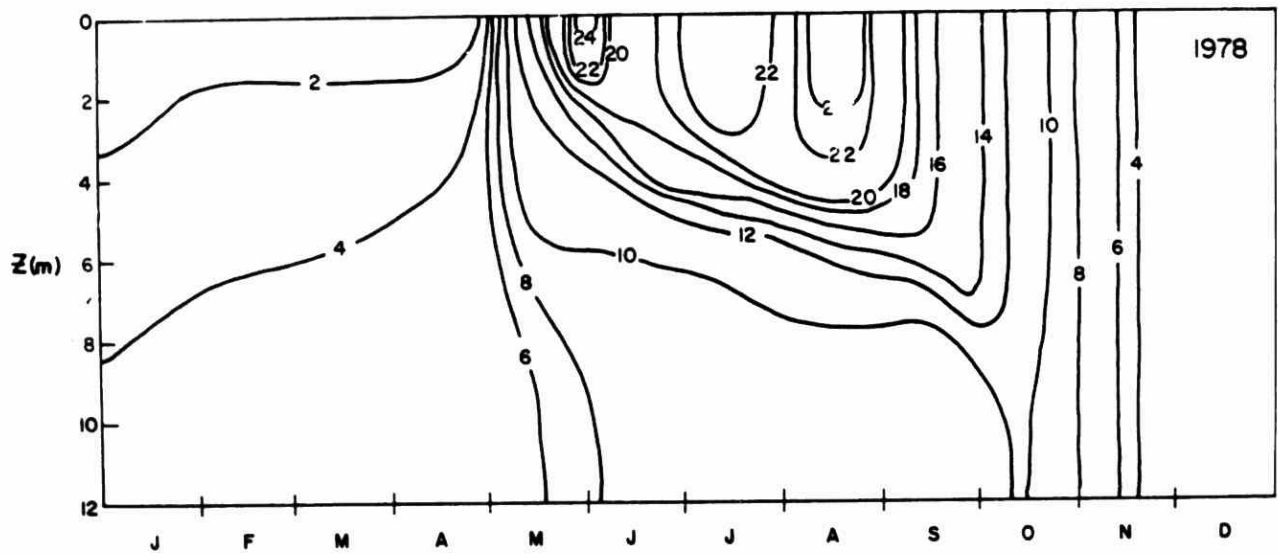


FIGURE 11

DICKIE LAKE TEMPERATURE ($^{\circ}\text{C}$)

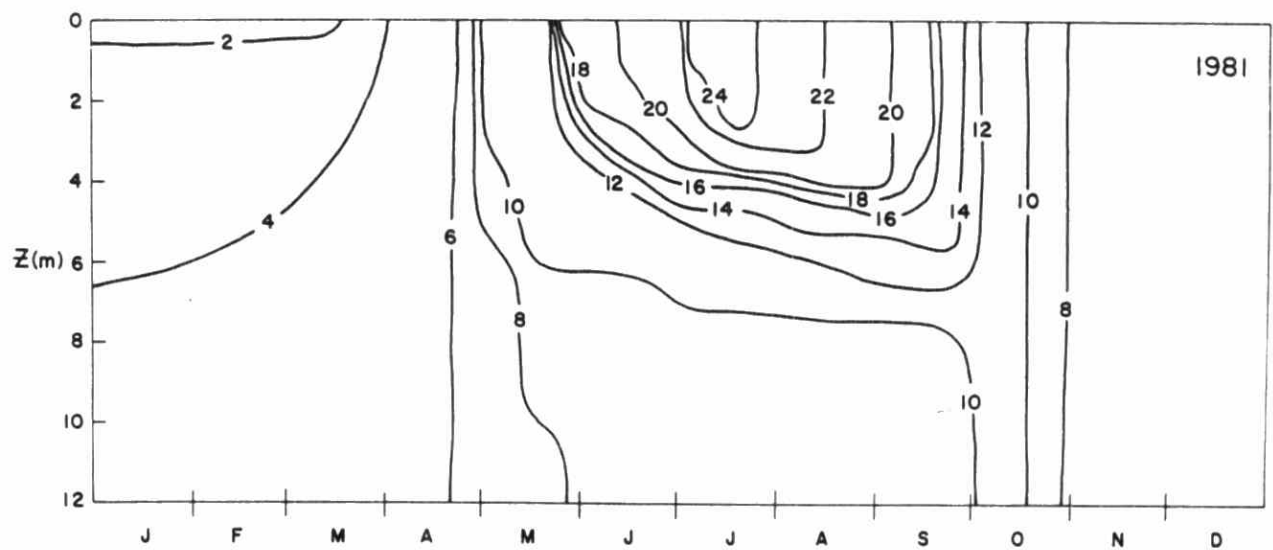
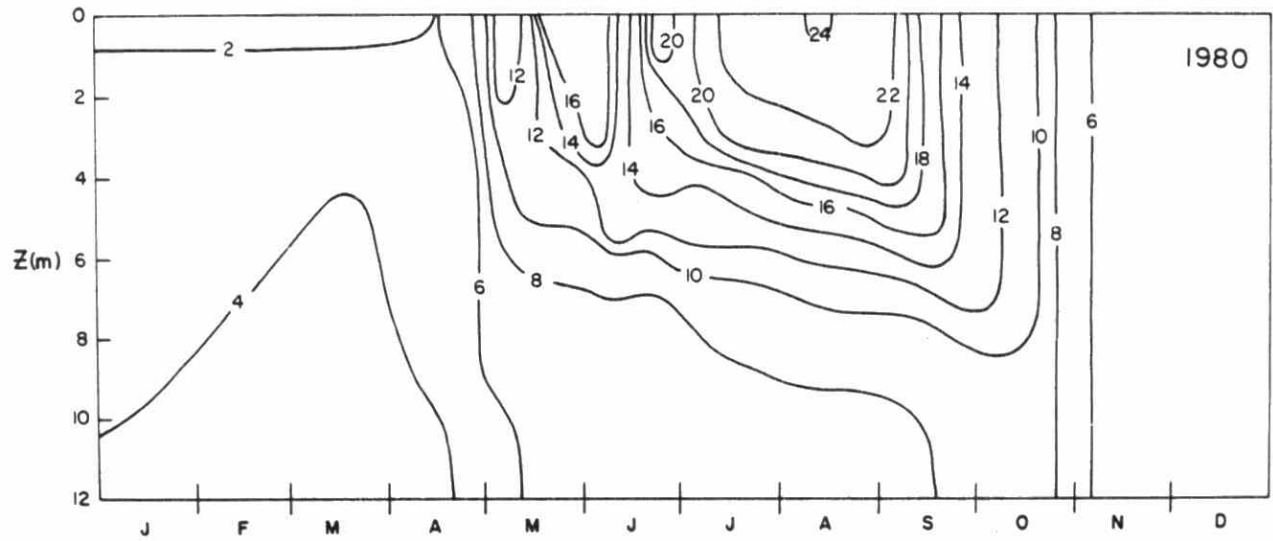


FIGURE 12

DICKIE LAKE TEMPERATURE (°C)

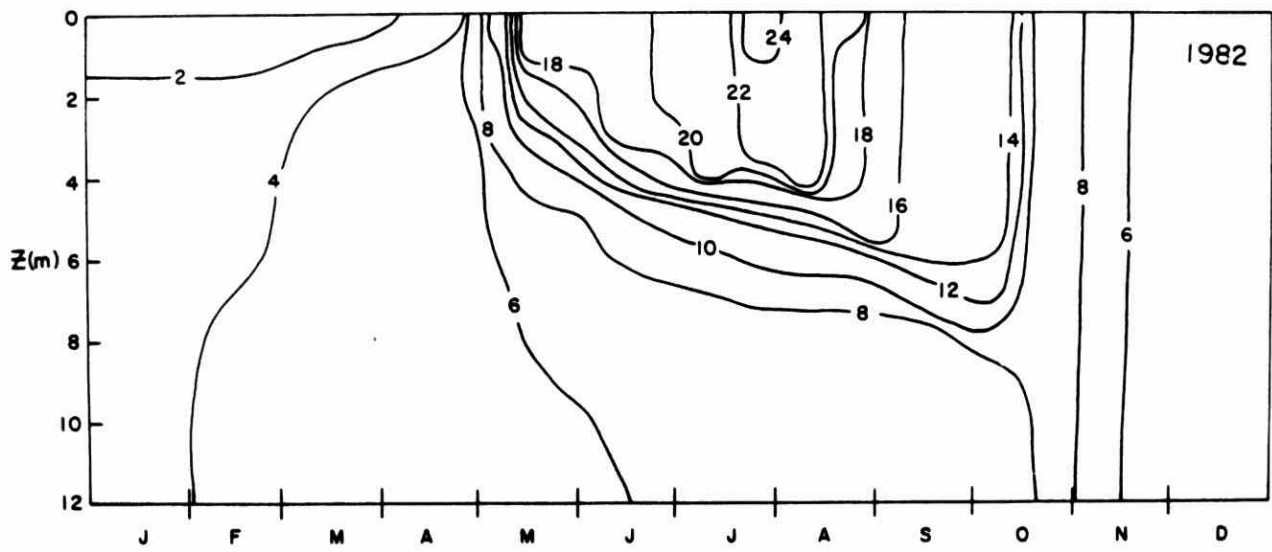


FIGURE 13

HARP LAKE TEMPERATURE (°C)

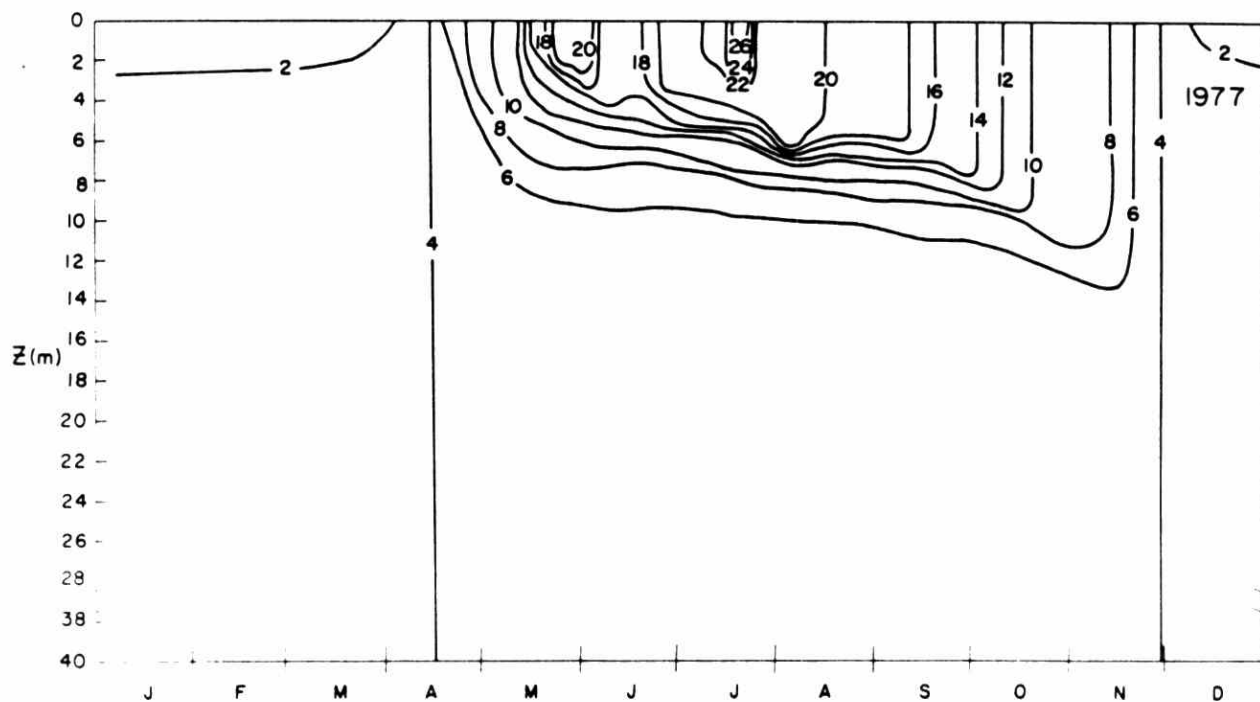
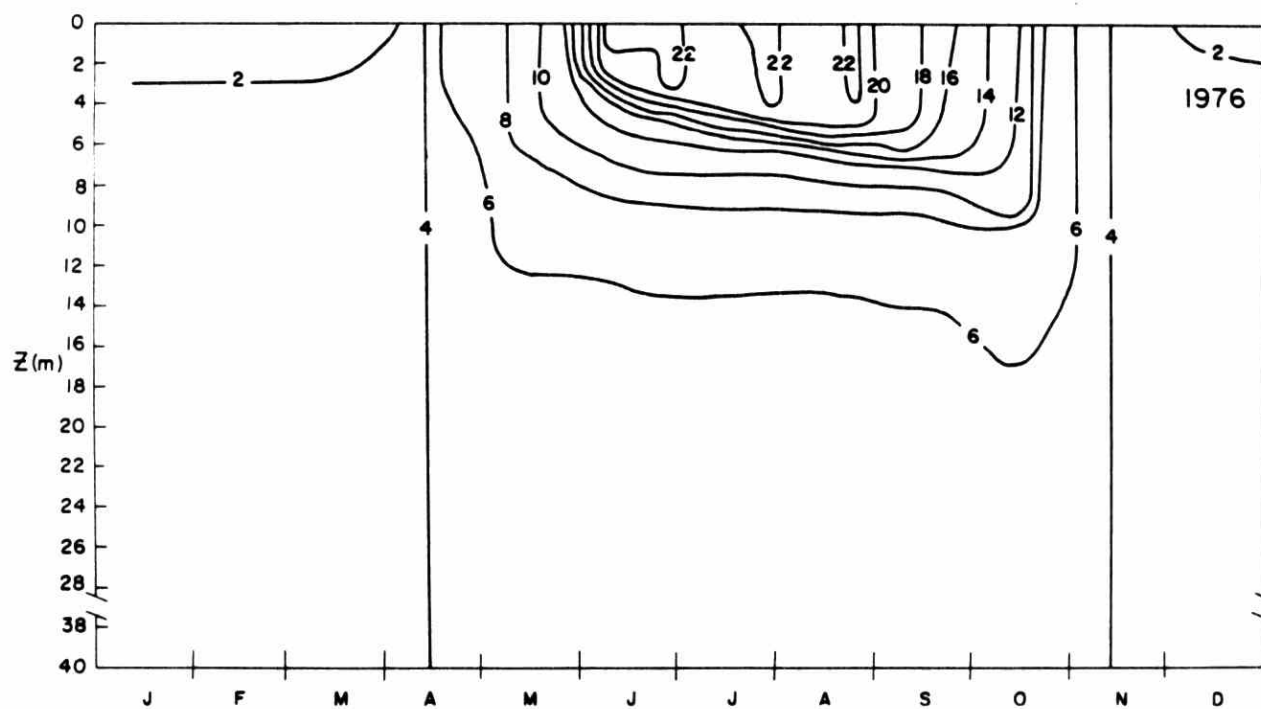


FIGURE 14

HARP LAKE TEMPERATURE (°C)

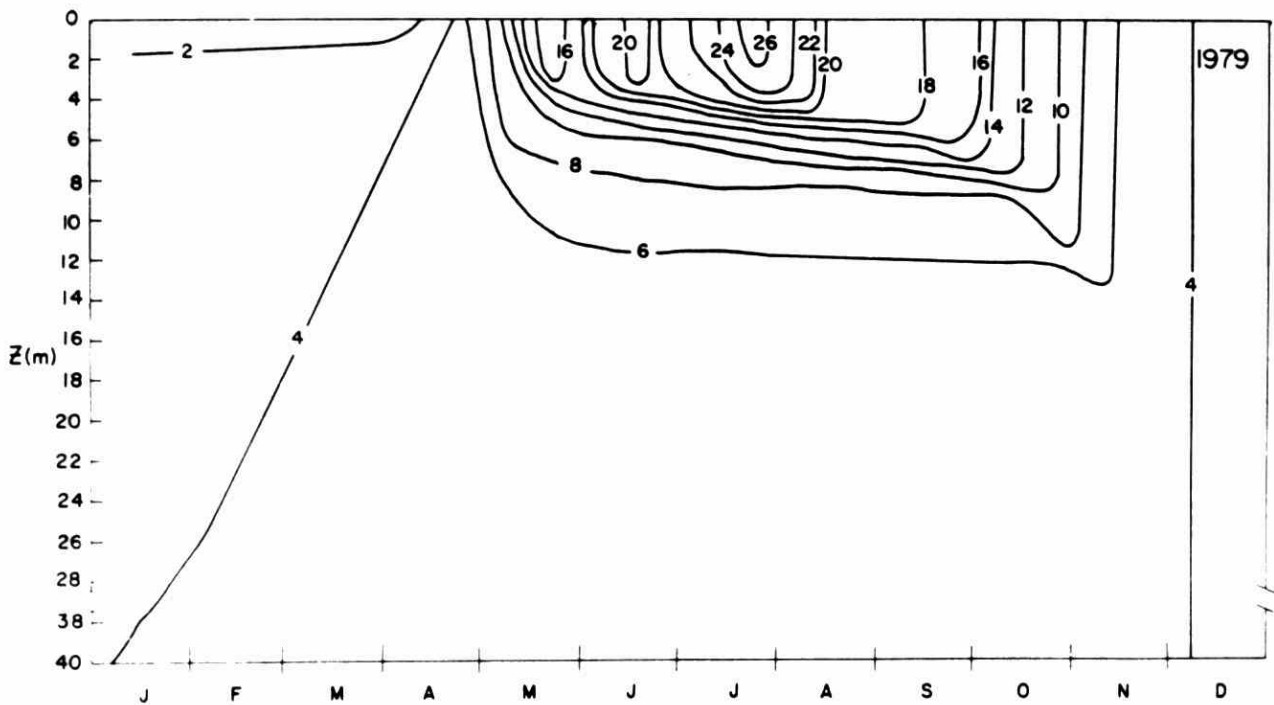
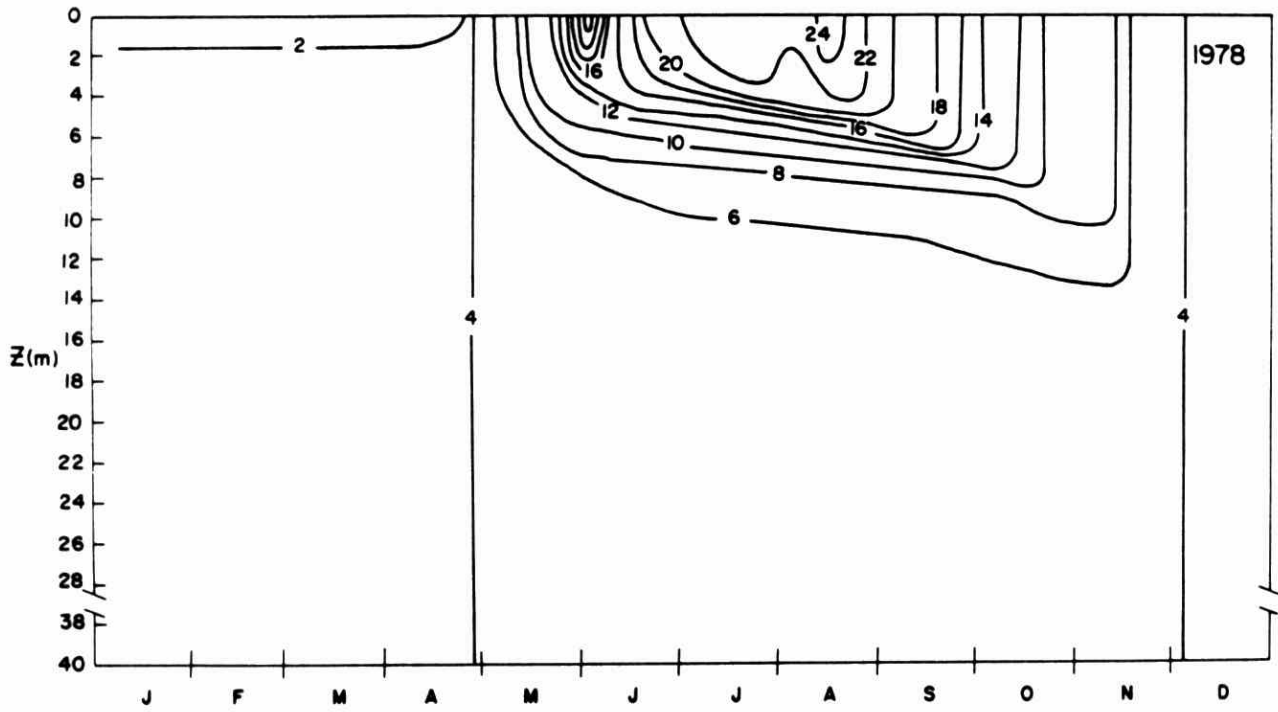


FIGURE 15

HARP LAKE TEMPERATURE (°C)

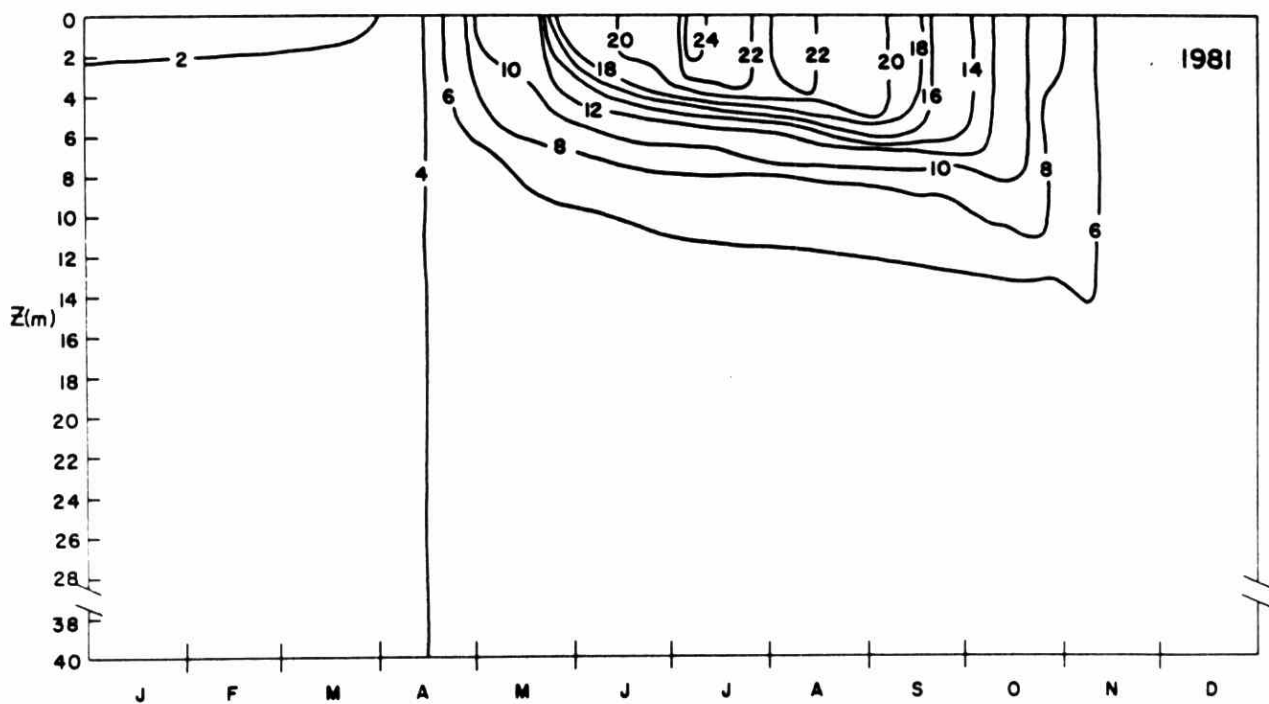
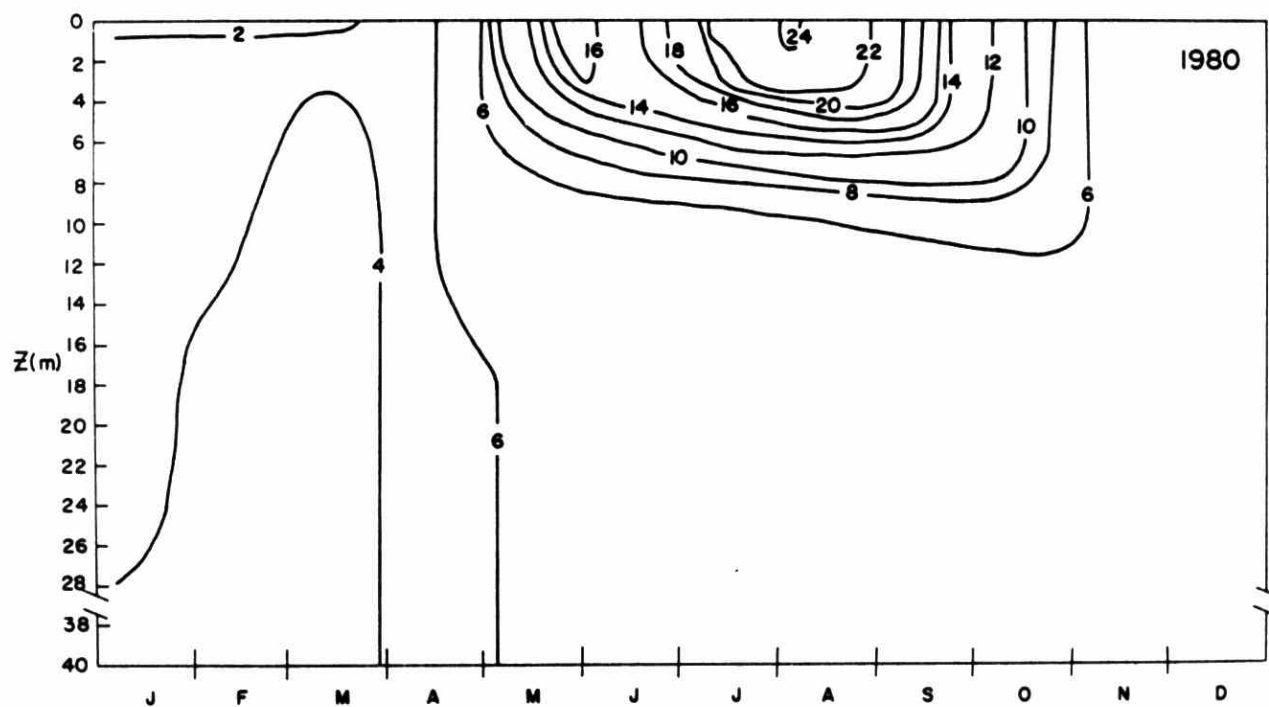


FIGURE 16

HARP LAKE TEMPERATURE (°C)

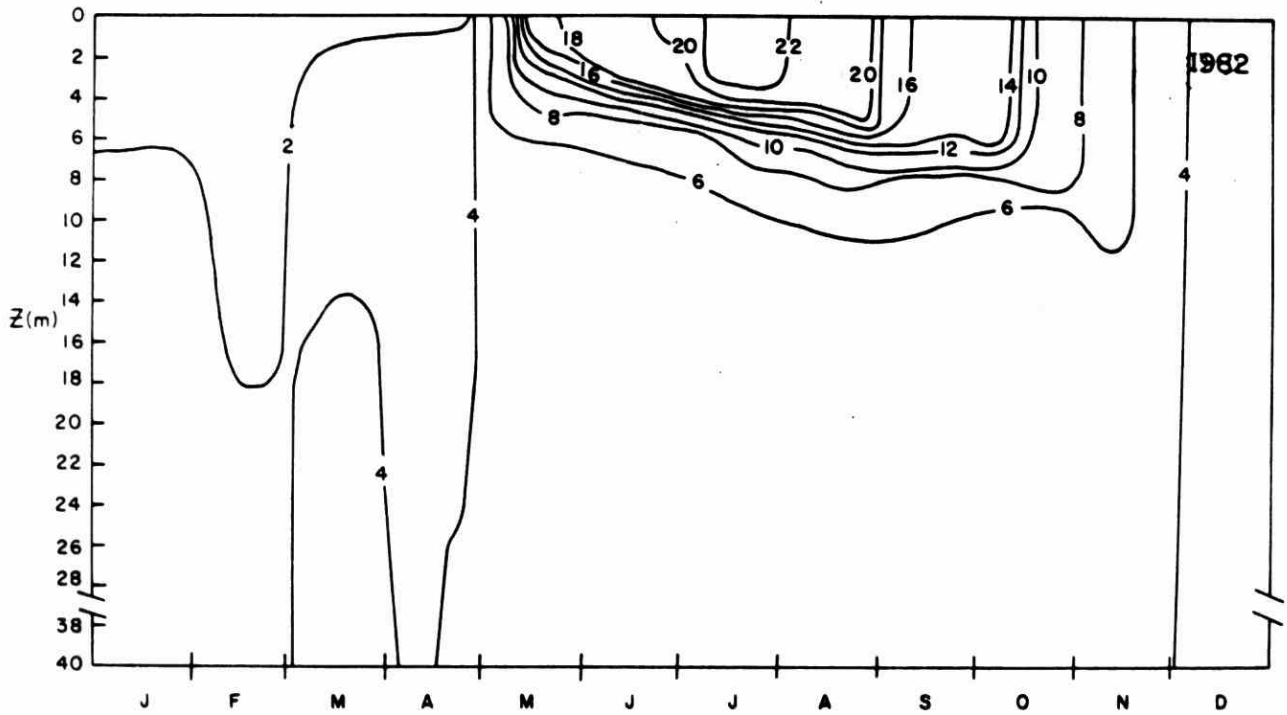


FIGURE 17

JERRY LAKE TEMPERATURE (°C)

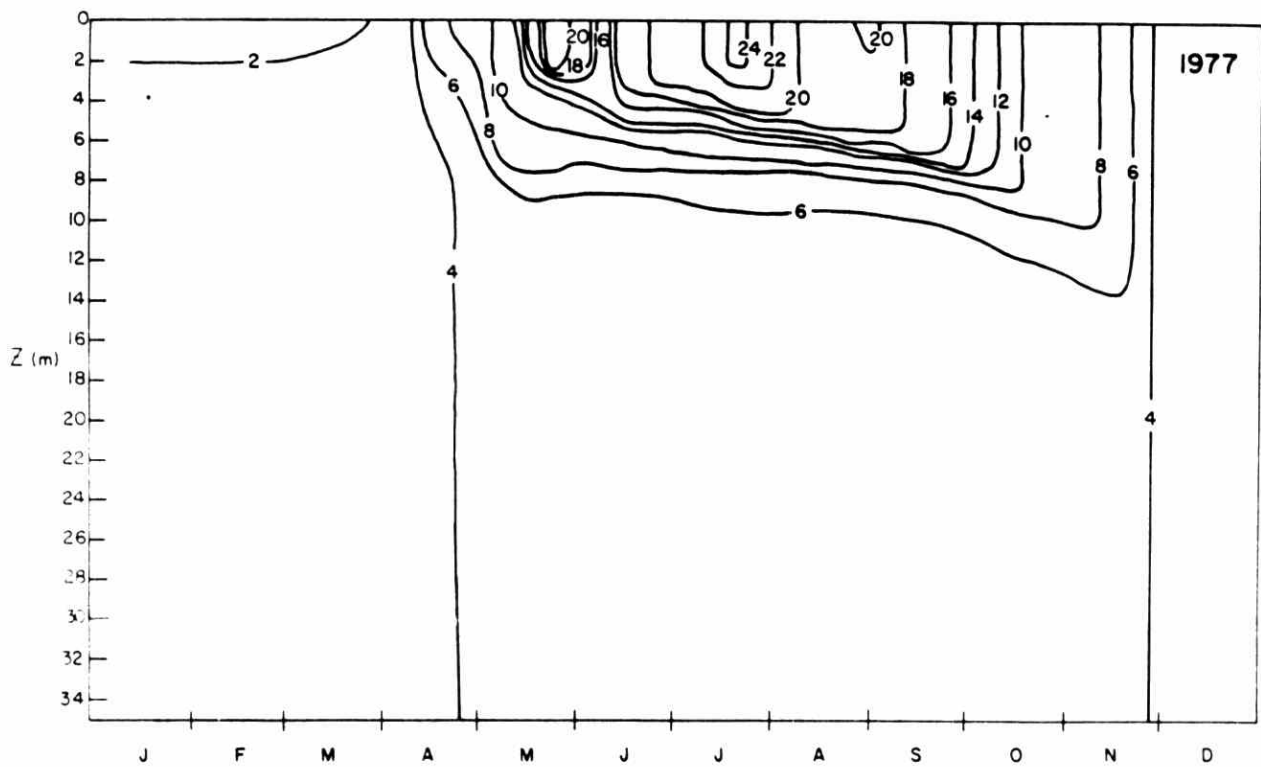
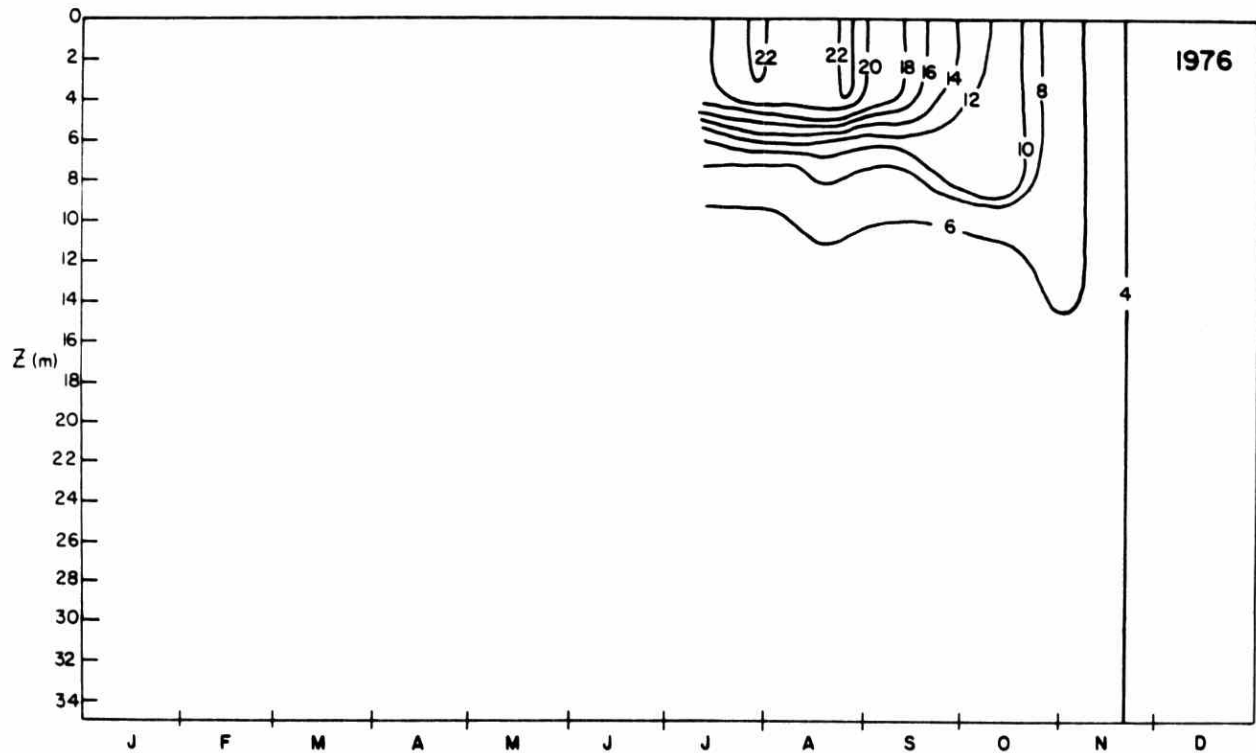


FIGURE 18

JERRY LAKE TEMPERATURE (°C)

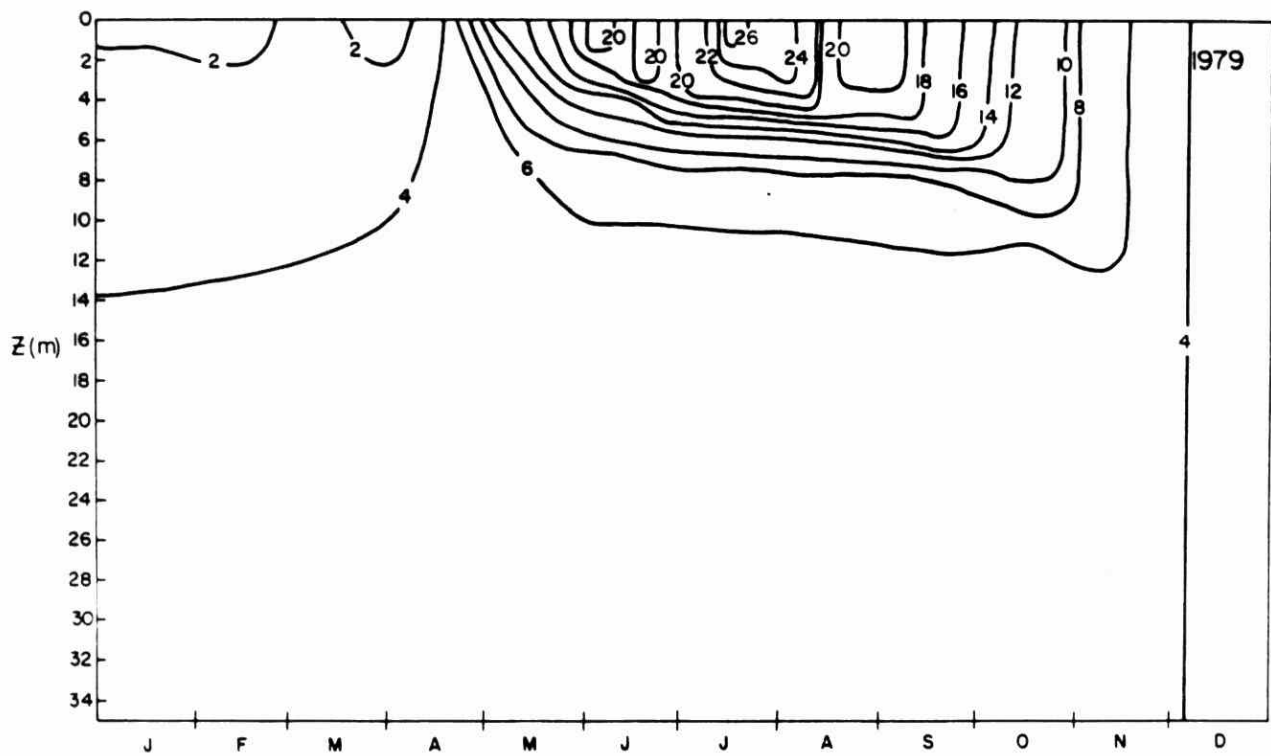
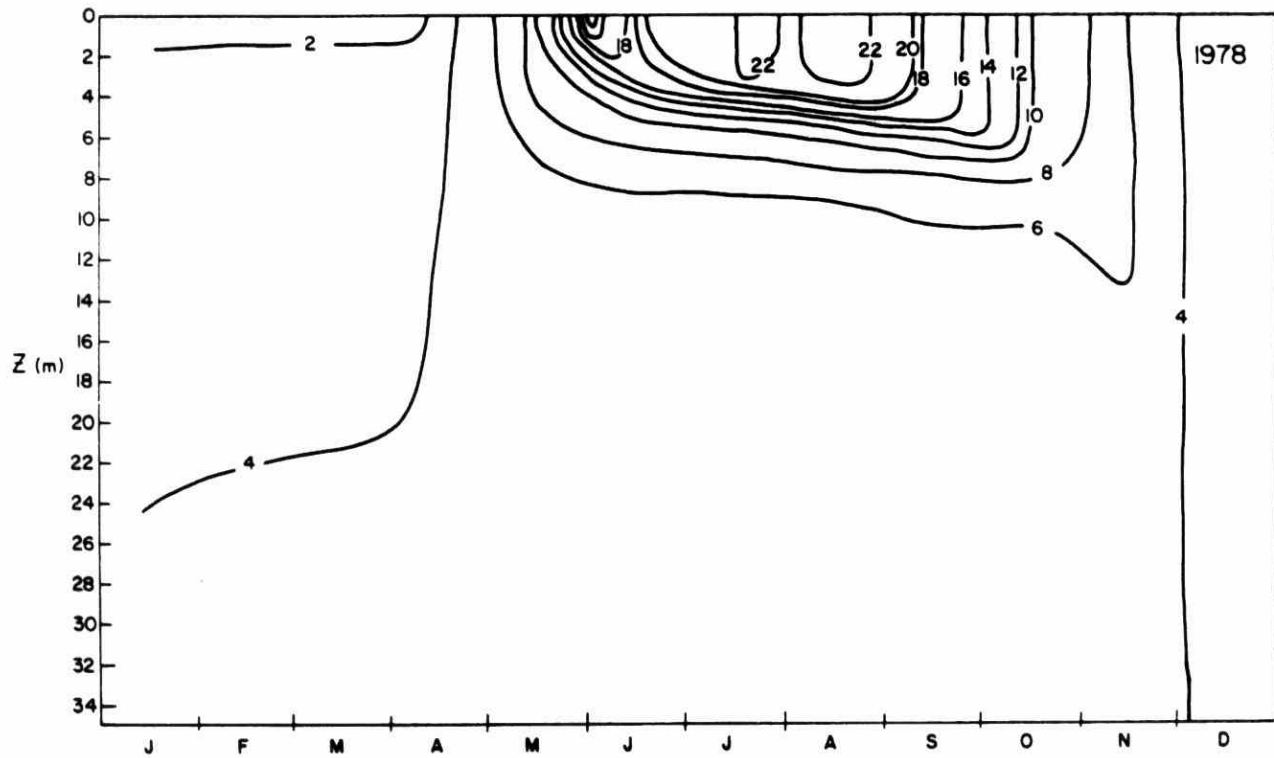


FIGURE 19

JERRY LAKE TEMPERATURE (°C)

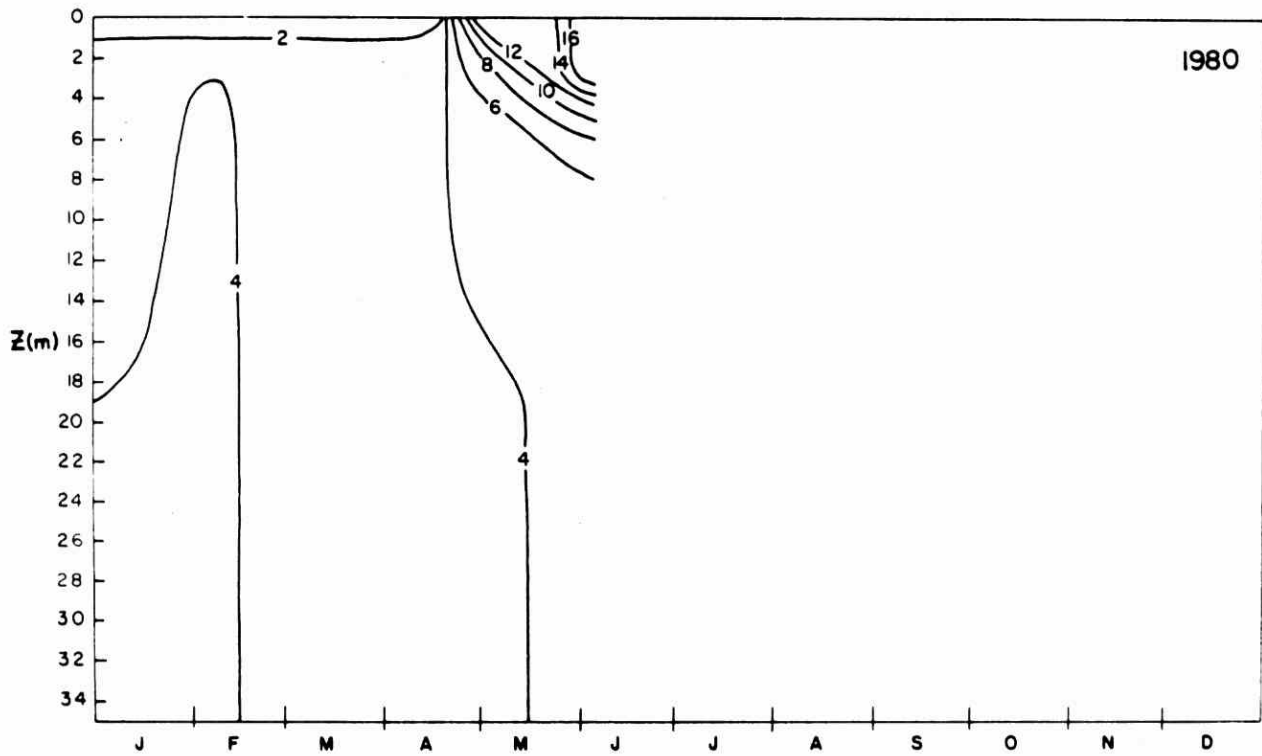


FIGURE 20

RED CHALK LAKE - WEST BASIN

TEMPERATURE (°C)

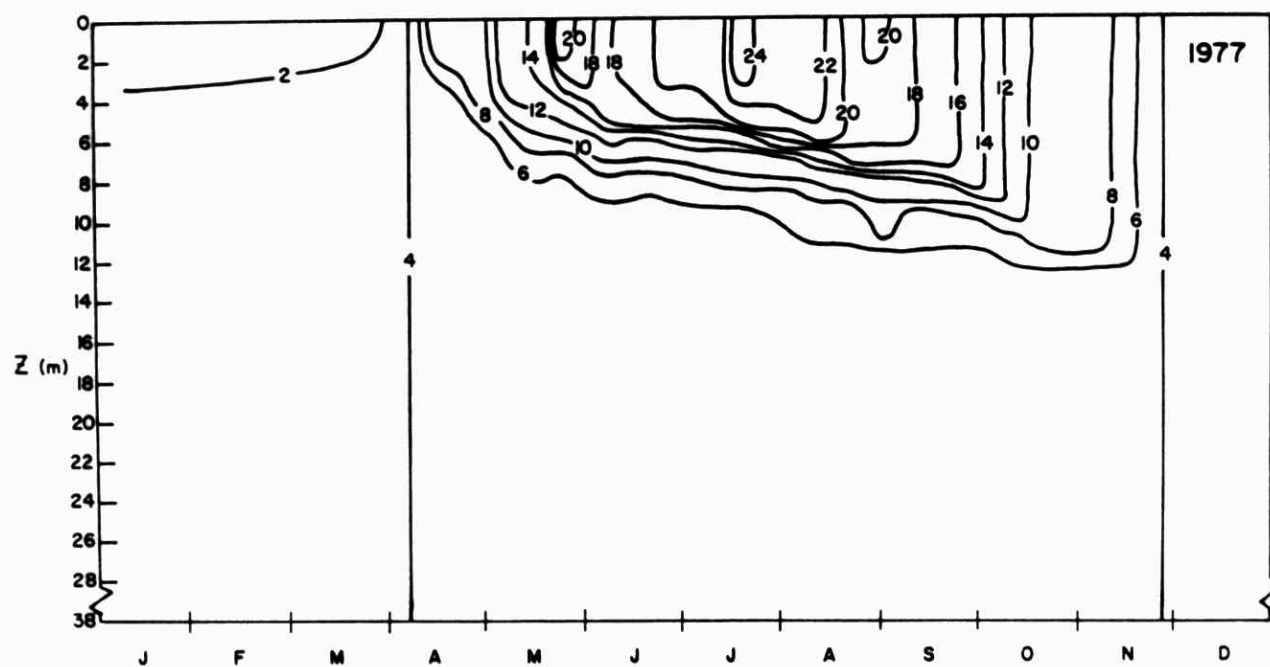
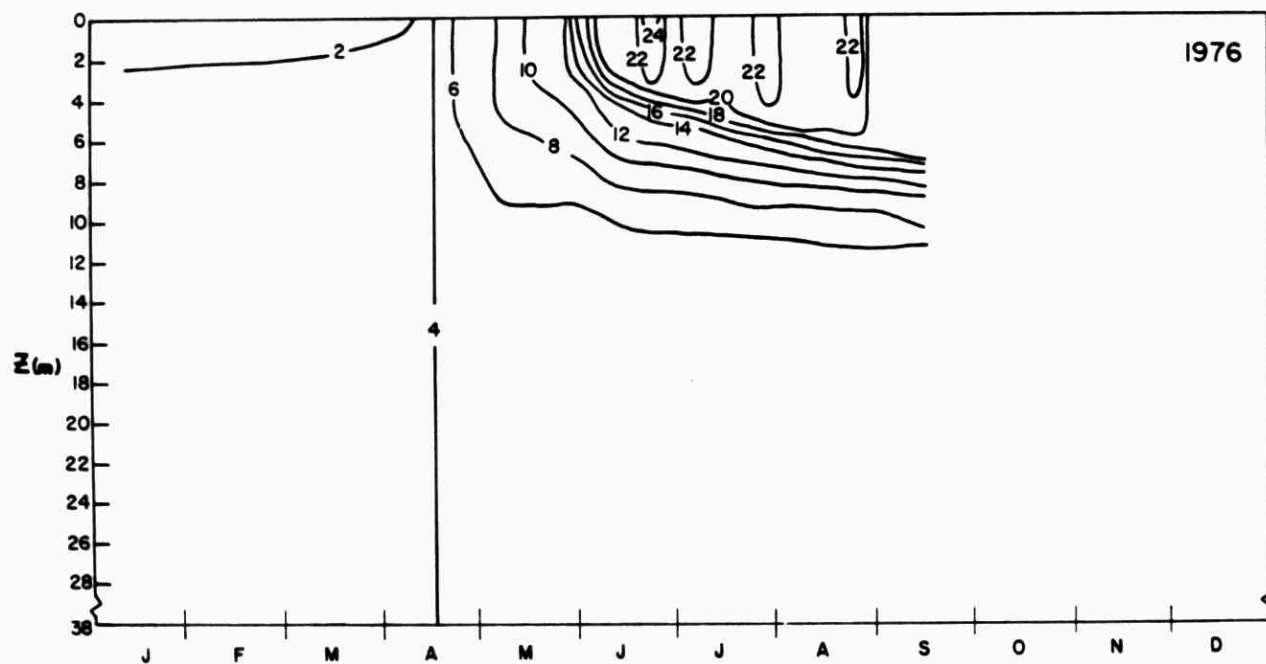


FIGURE 21

RED CHALK LAKE - WEST BASIN

TEMPERATURE (°C)

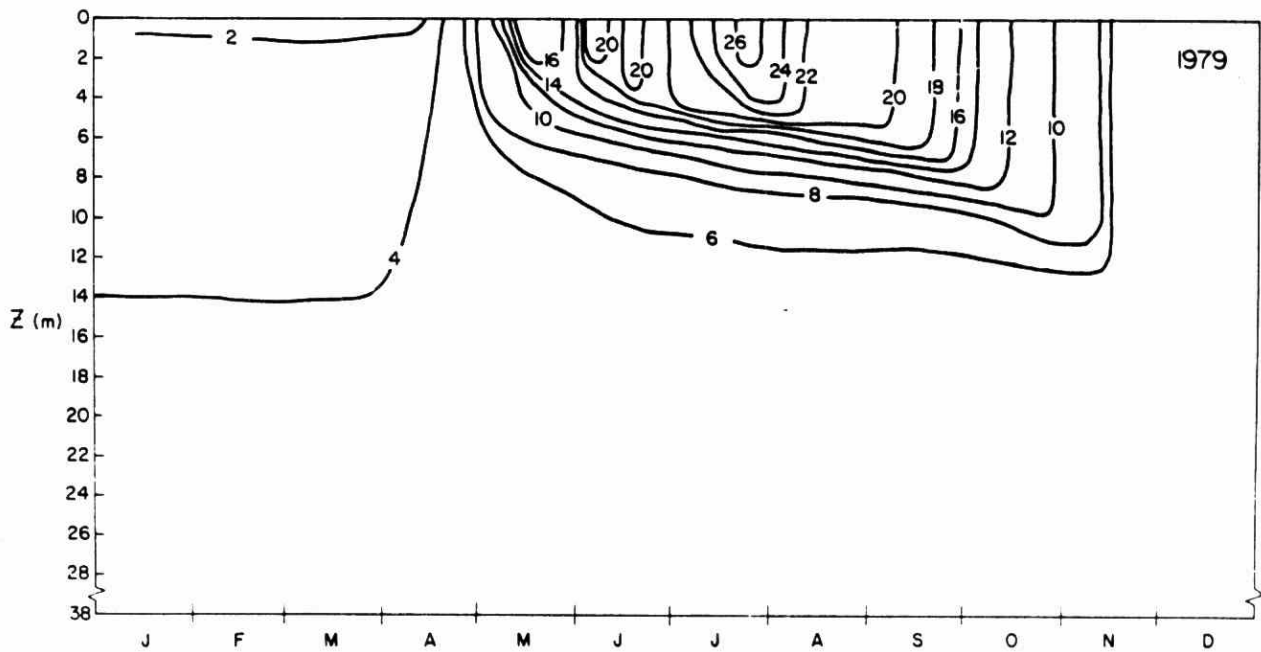
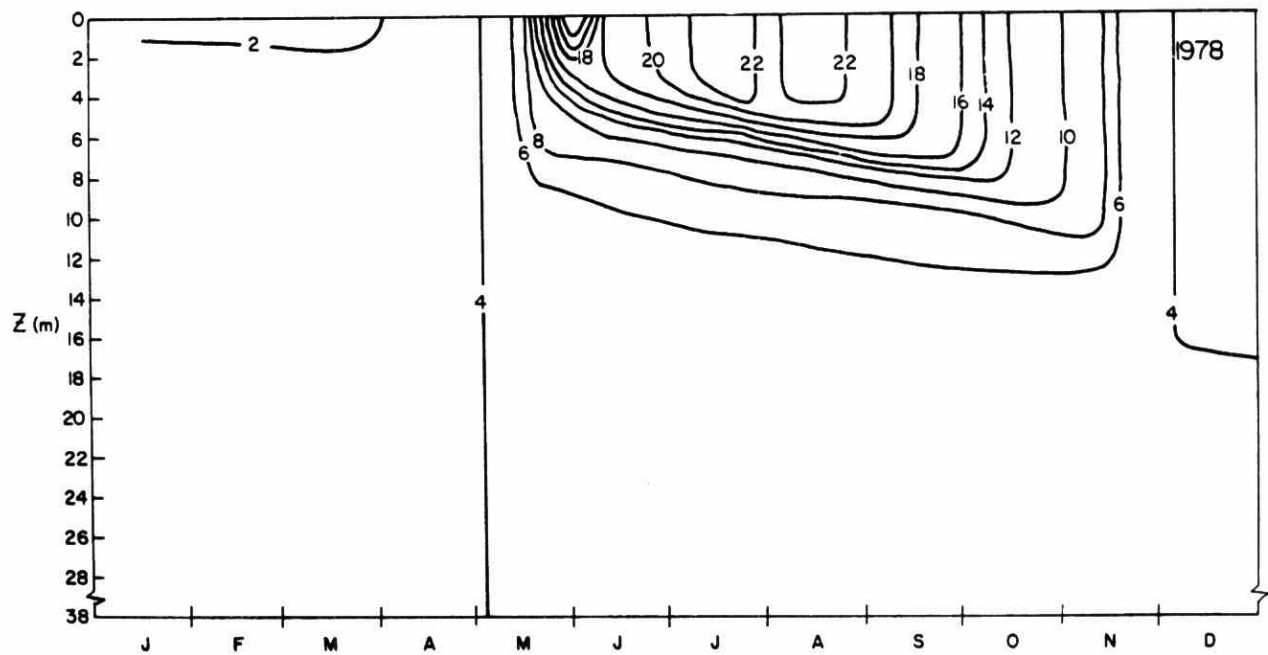


FIGURE 22

RED CHALK LAKE - WEST BASIN

TEMPERATURE (°C)

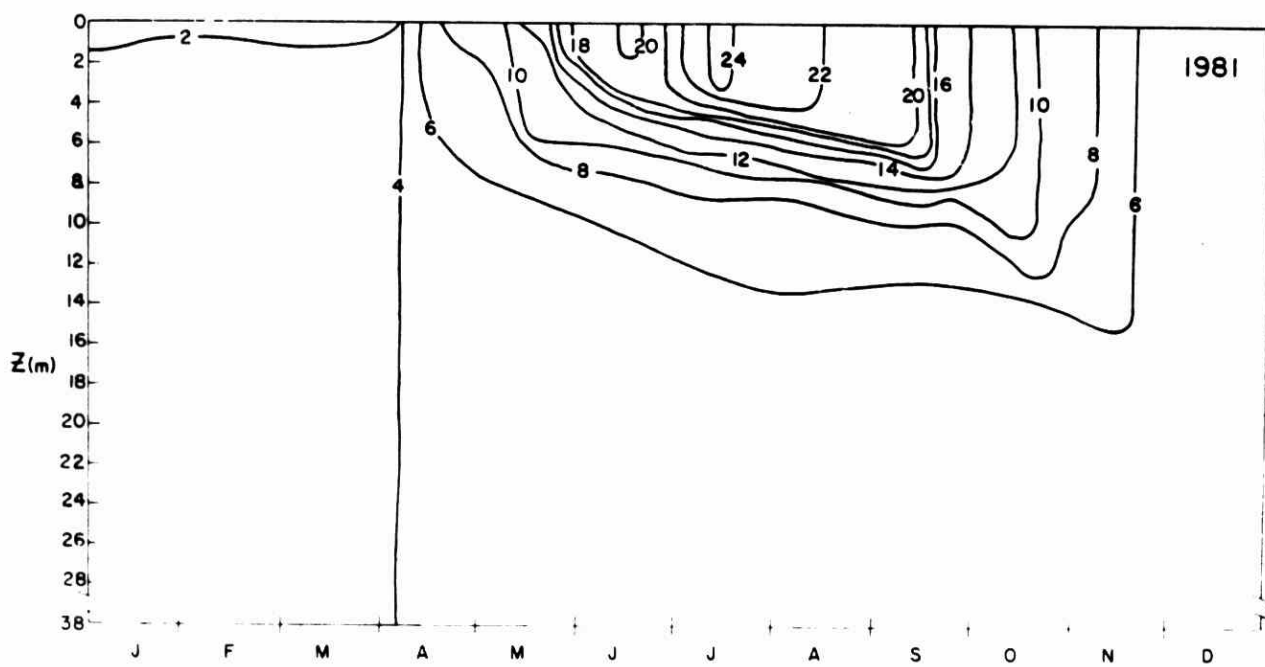
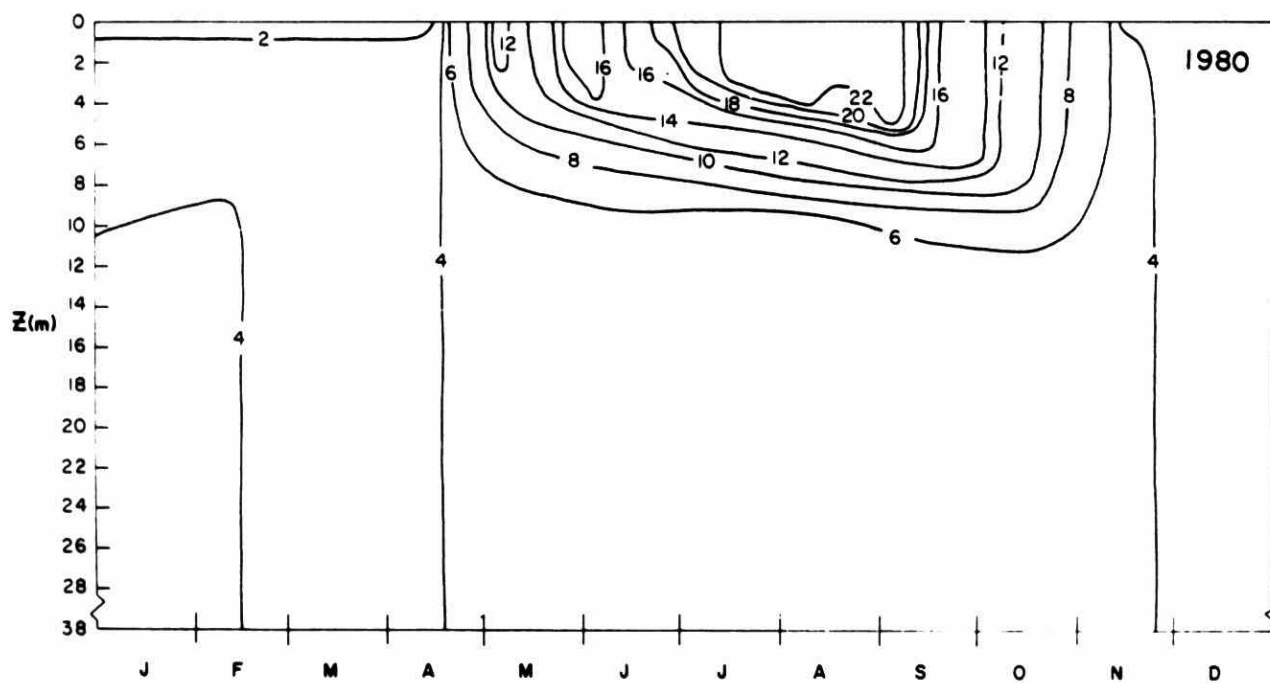


FIGURE 23

RED CHALK LAKE - WEST BASIN

TEMPERATURE (°C)

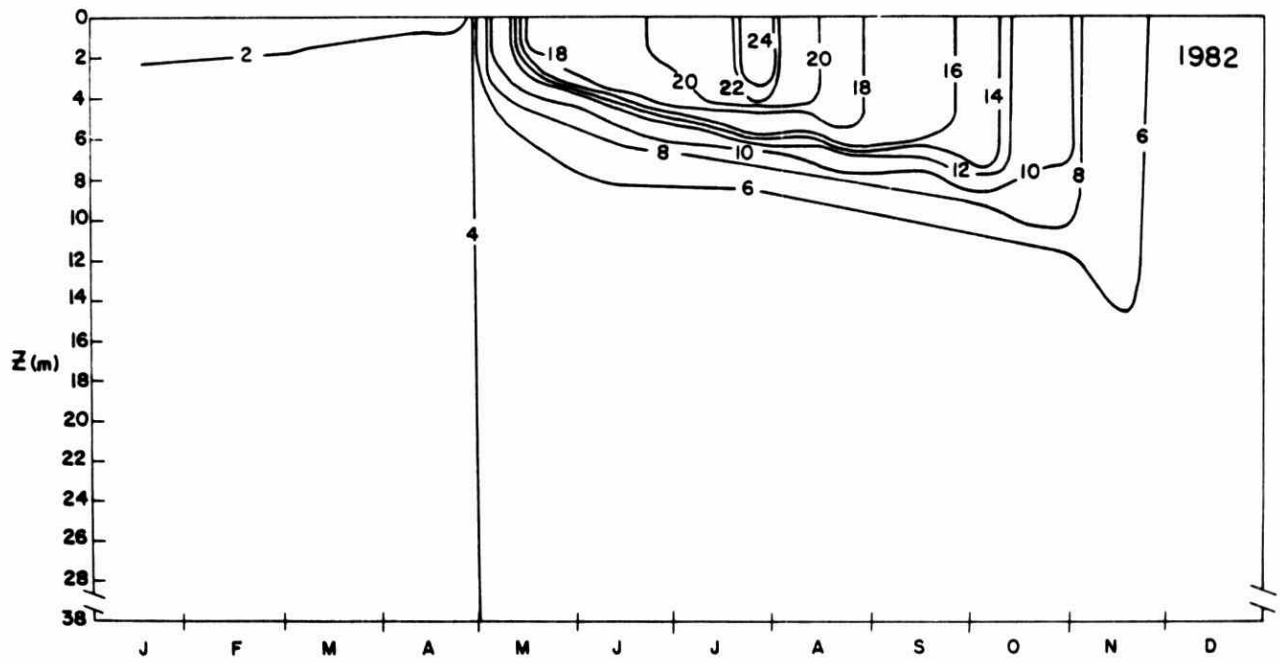


FIGURE 24

RED CHALK LAKE - EAST BASIN TEMPERATURE ($^{\circ}\text{C}$)

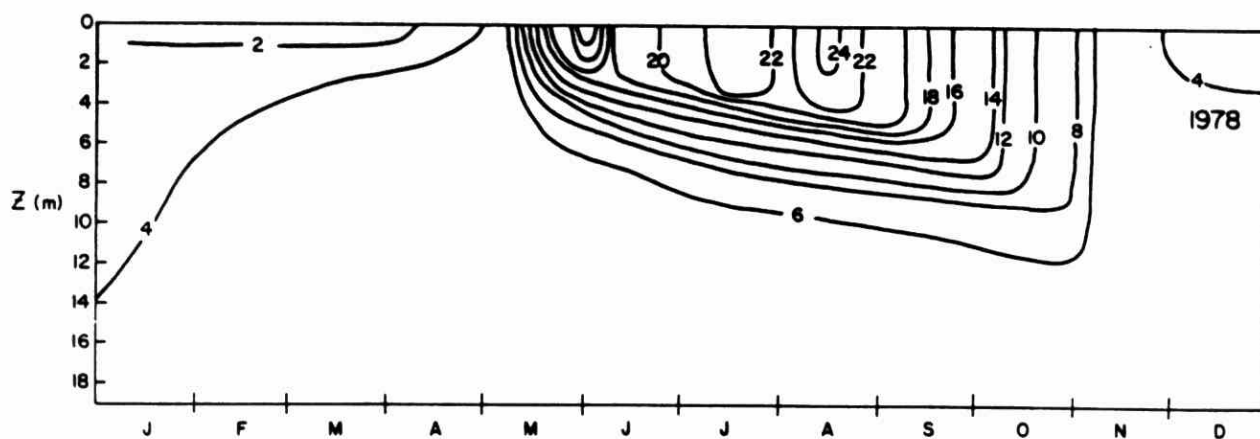
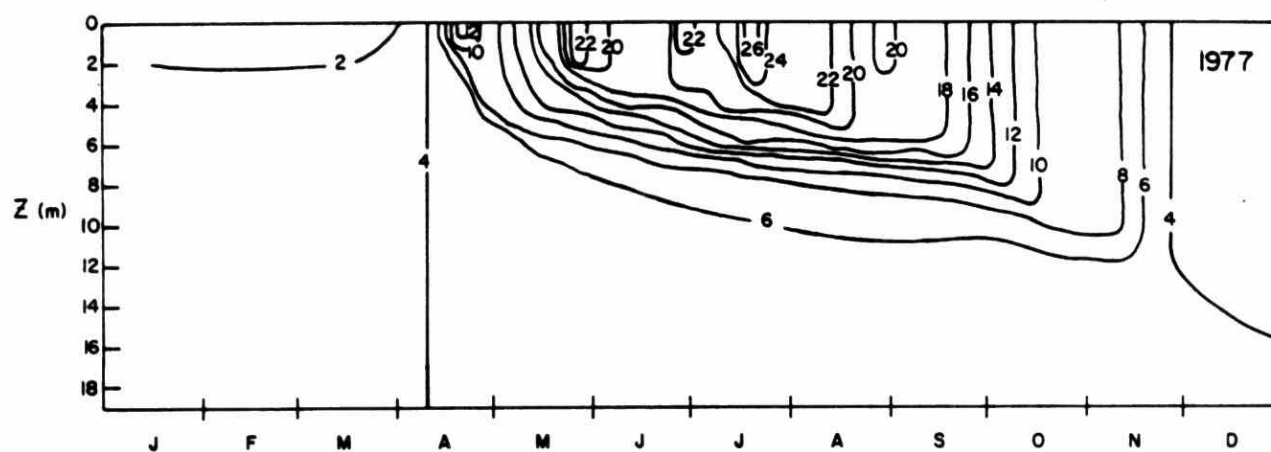
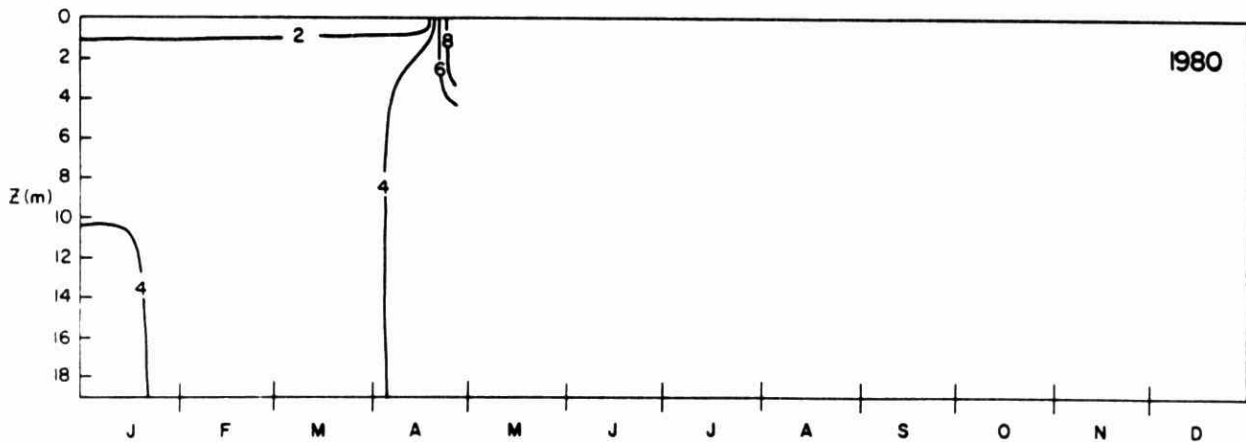
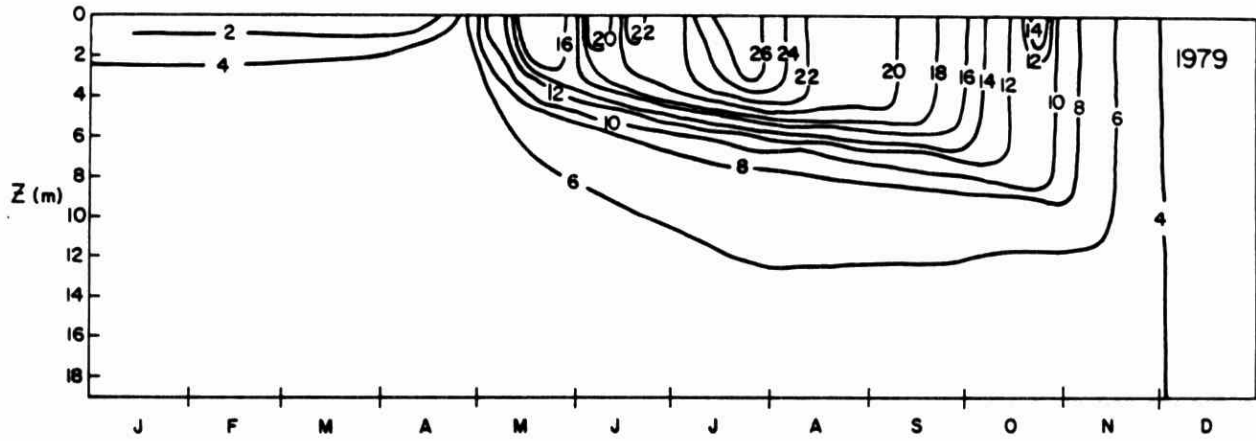


FIGURE 25

RED CHALK LAKE - EAST BASIN TEMPERATURE (°C)



BASSHAUNT LAKE TEMPERATURE (°C)

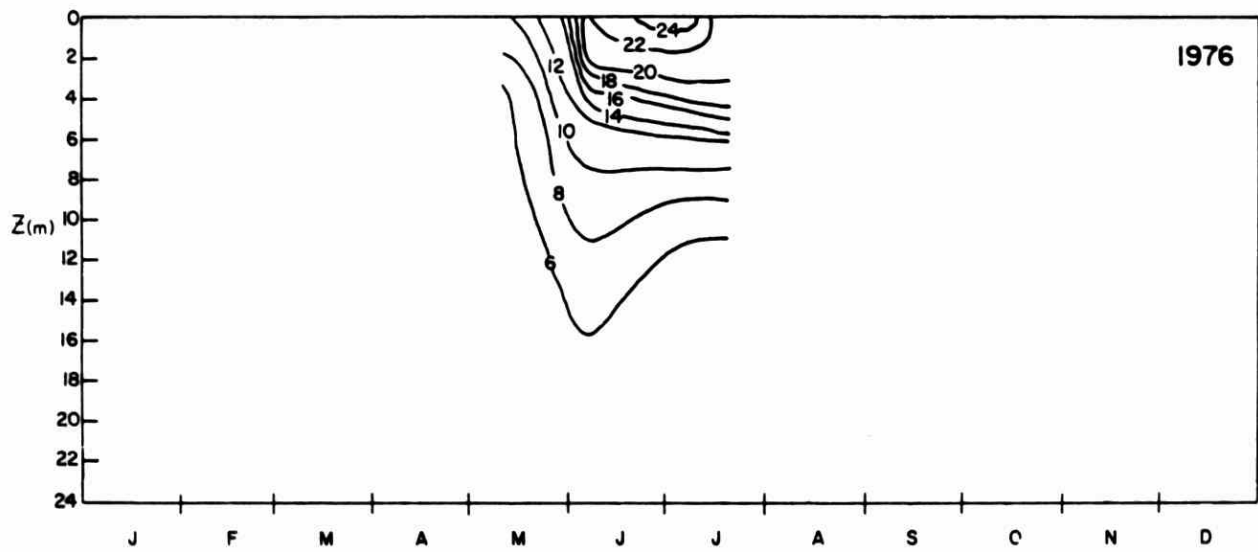


FIGURE 27

BASSHAUNT LAKE TEMPERATURE (°C)

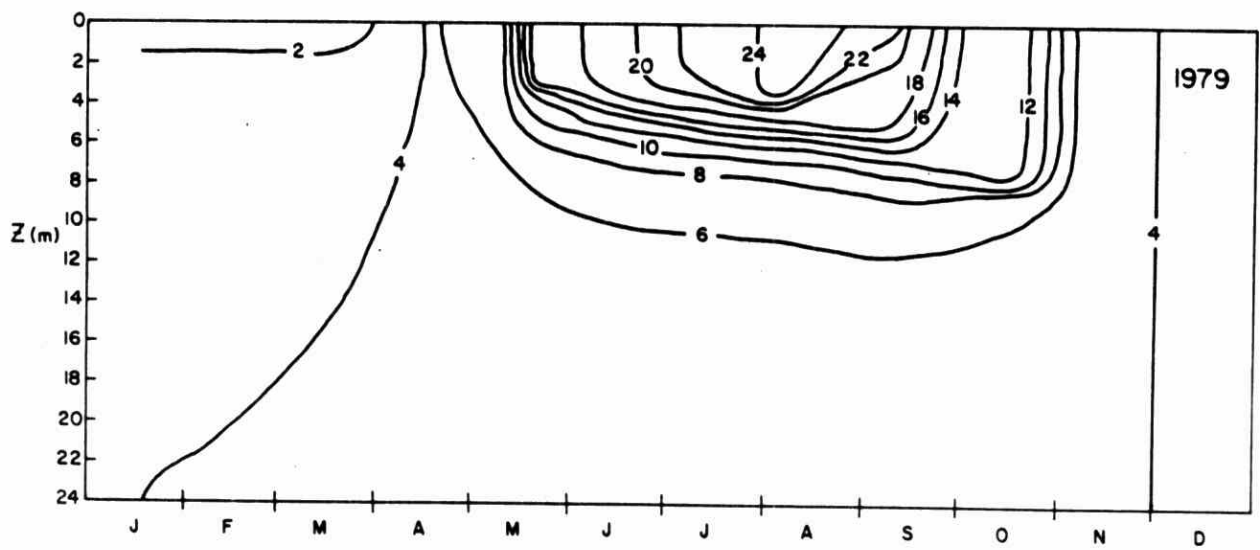
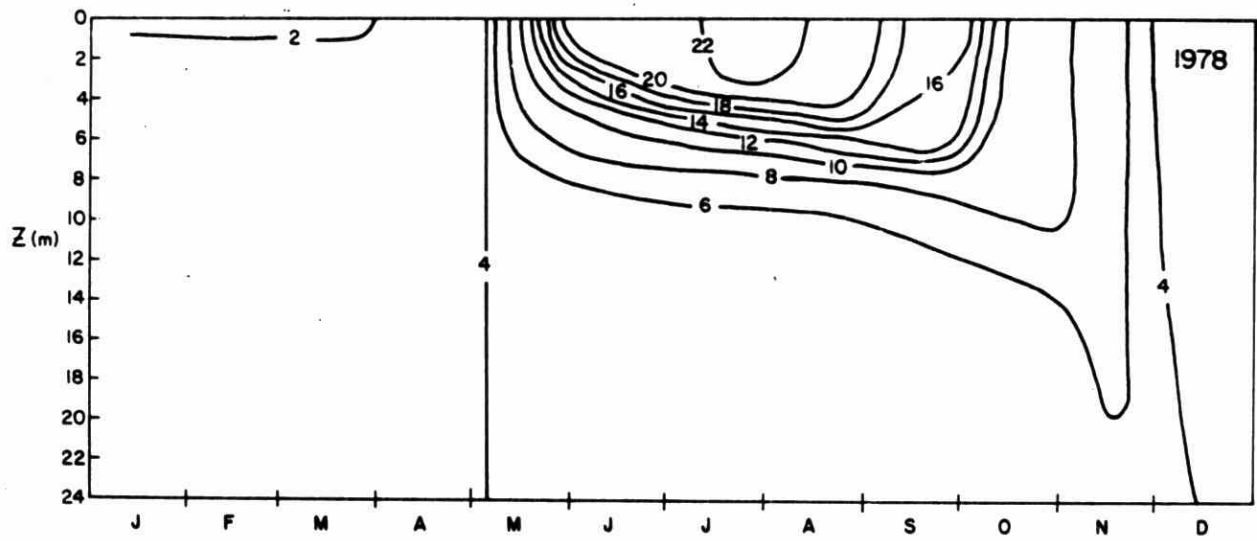


FIGURE 28

BASSHAUNT LAKE TEMPERATURE (°C)

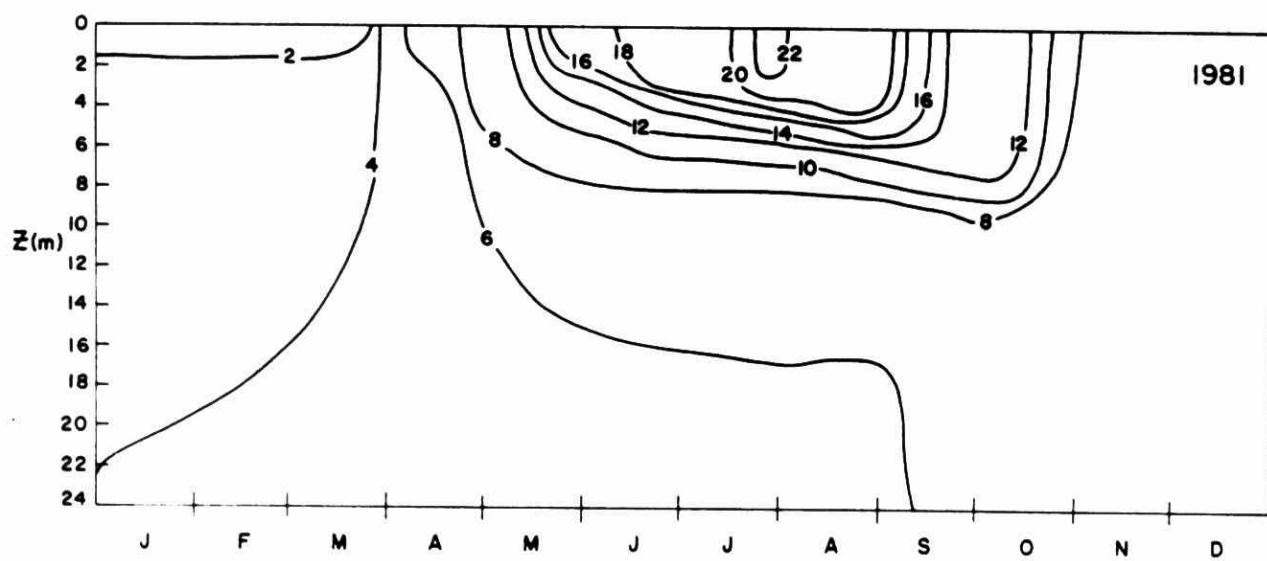
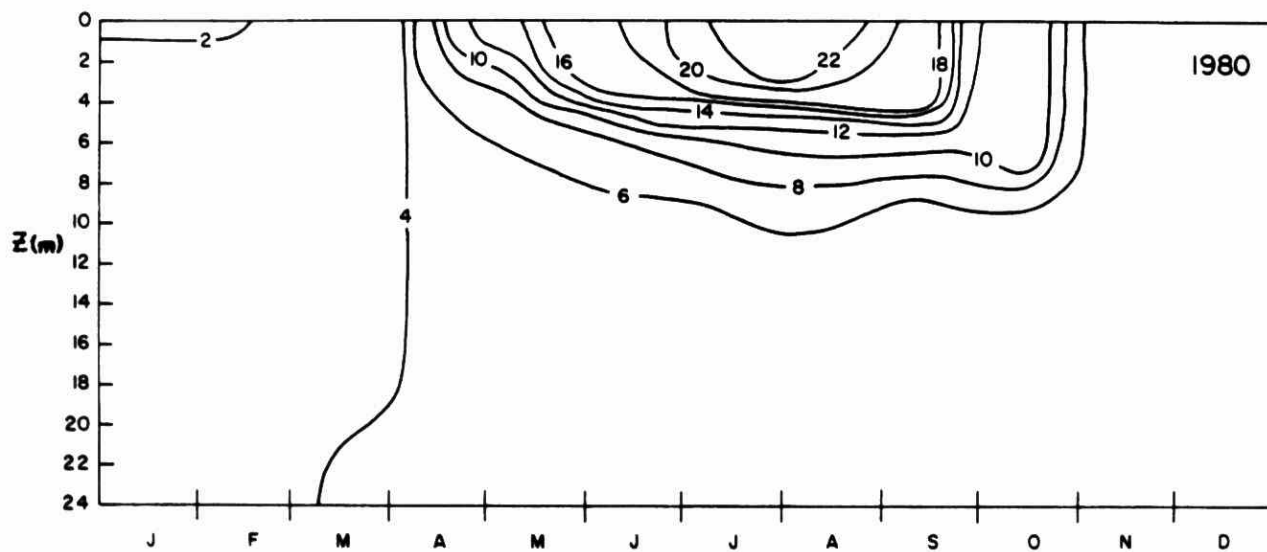


FIGURE 29

BIGWIND LAKE

TEMPERATURE (°C)

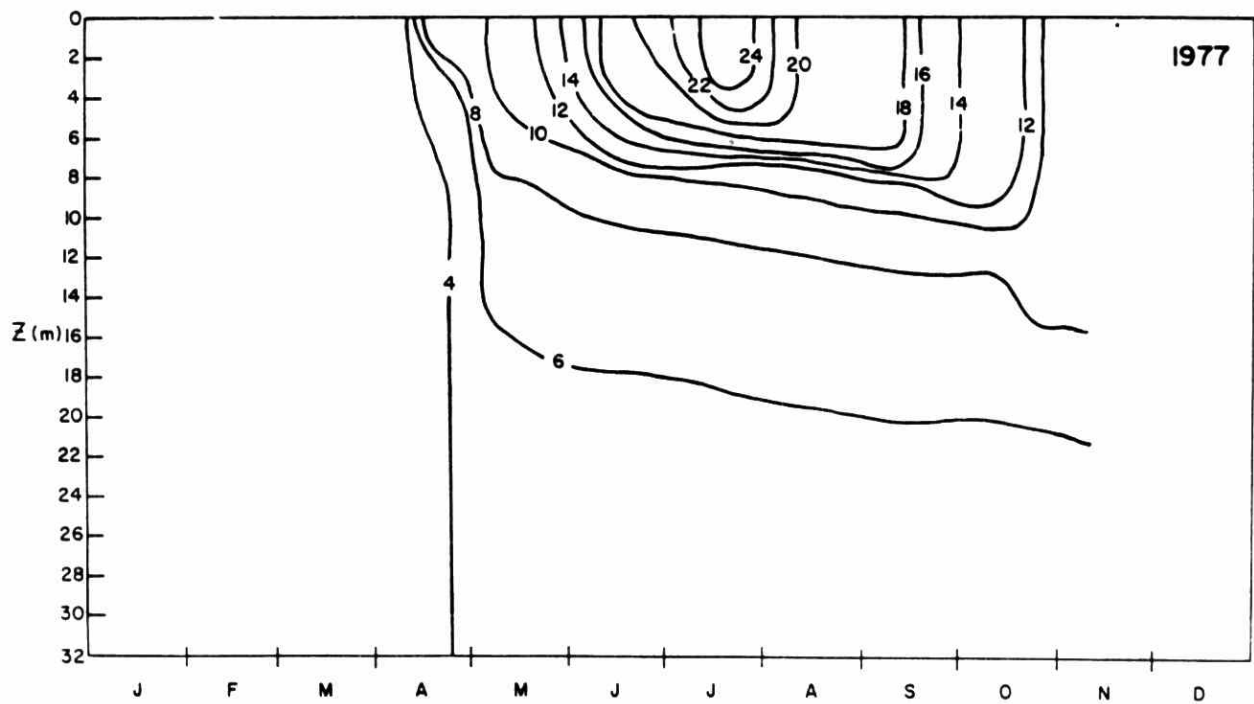
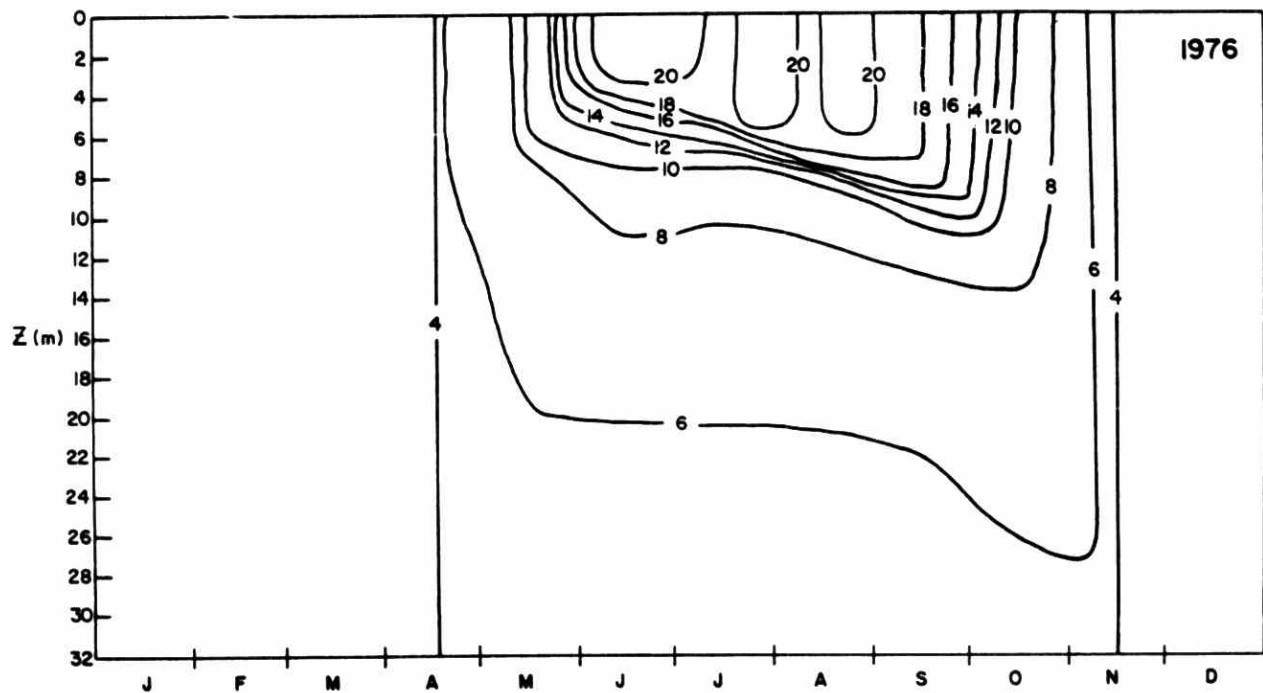


FIGURE 30

BIGWIND LAKE

TEMPERATURE (°C)

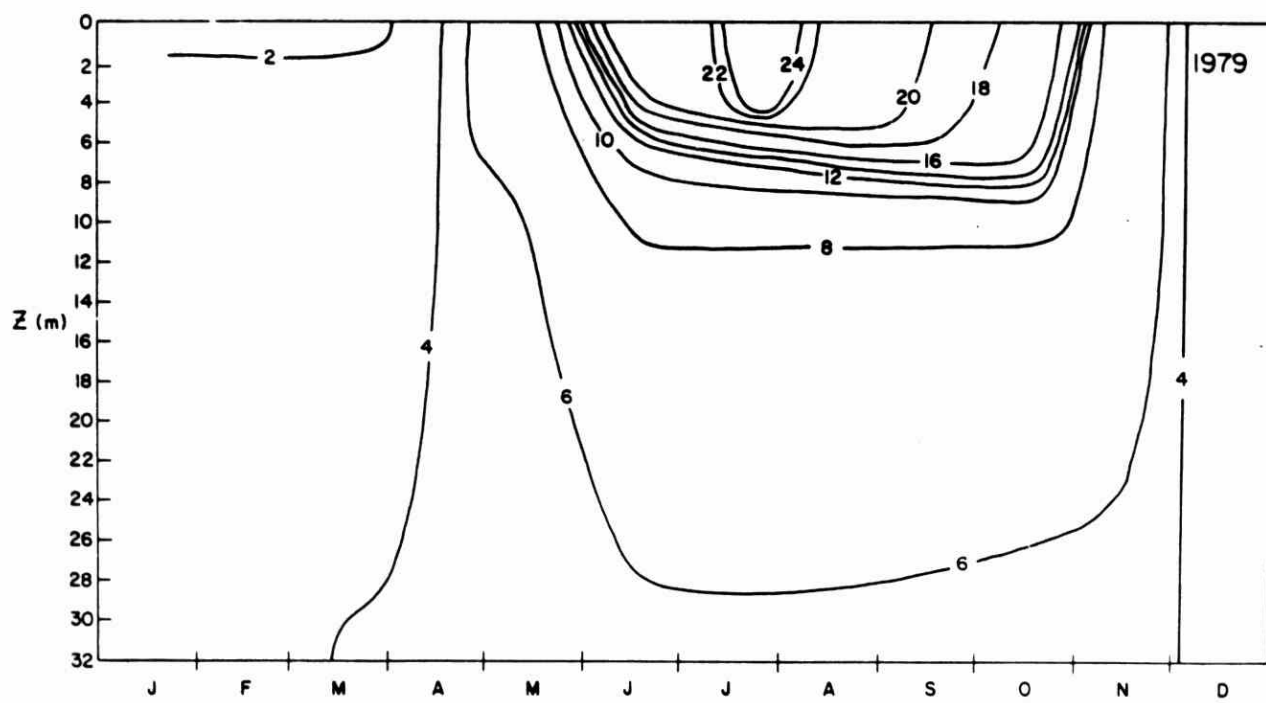
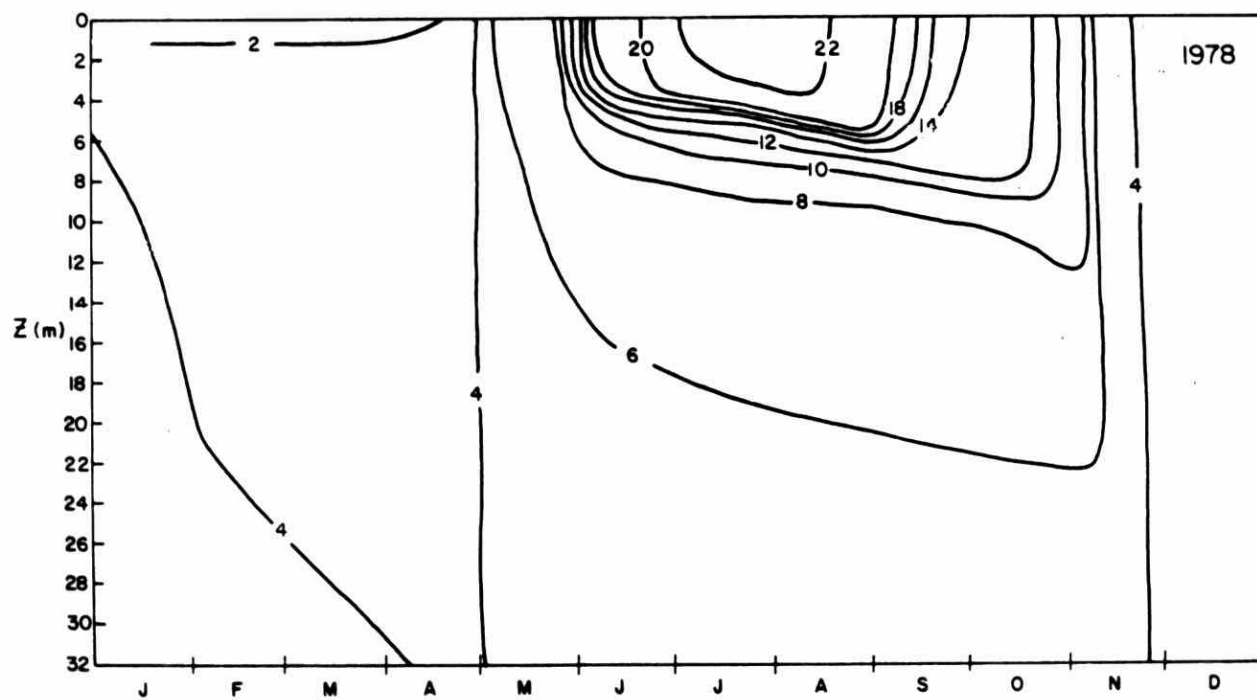


FIGURE 31

BIGWIND LAKE

TEMPERATURE (°C)

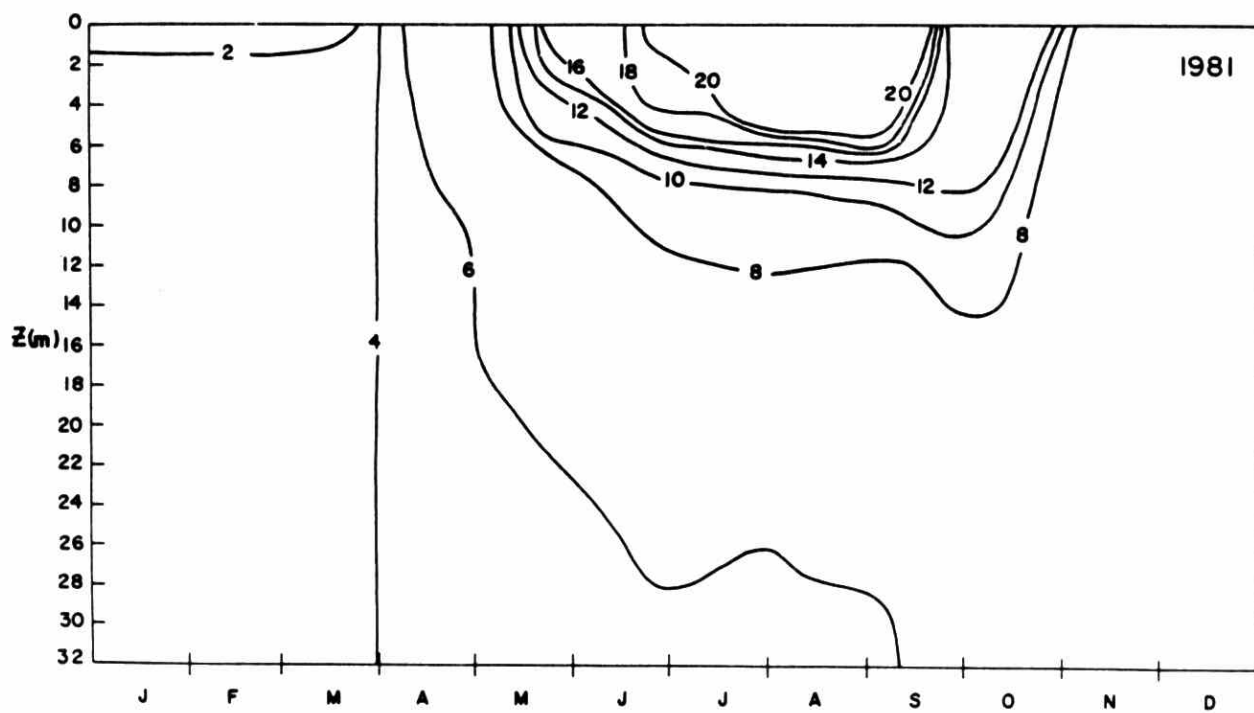
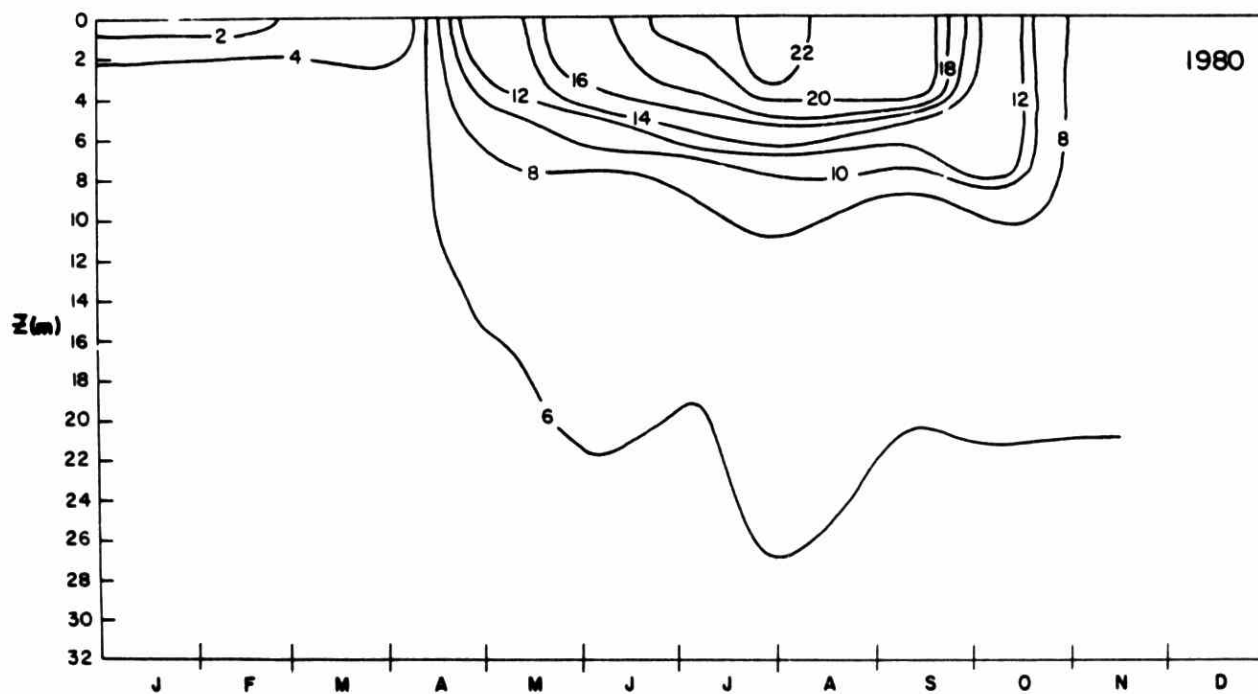


FIGURE 32

BUCK LAKE TEMPERATURE (°C)

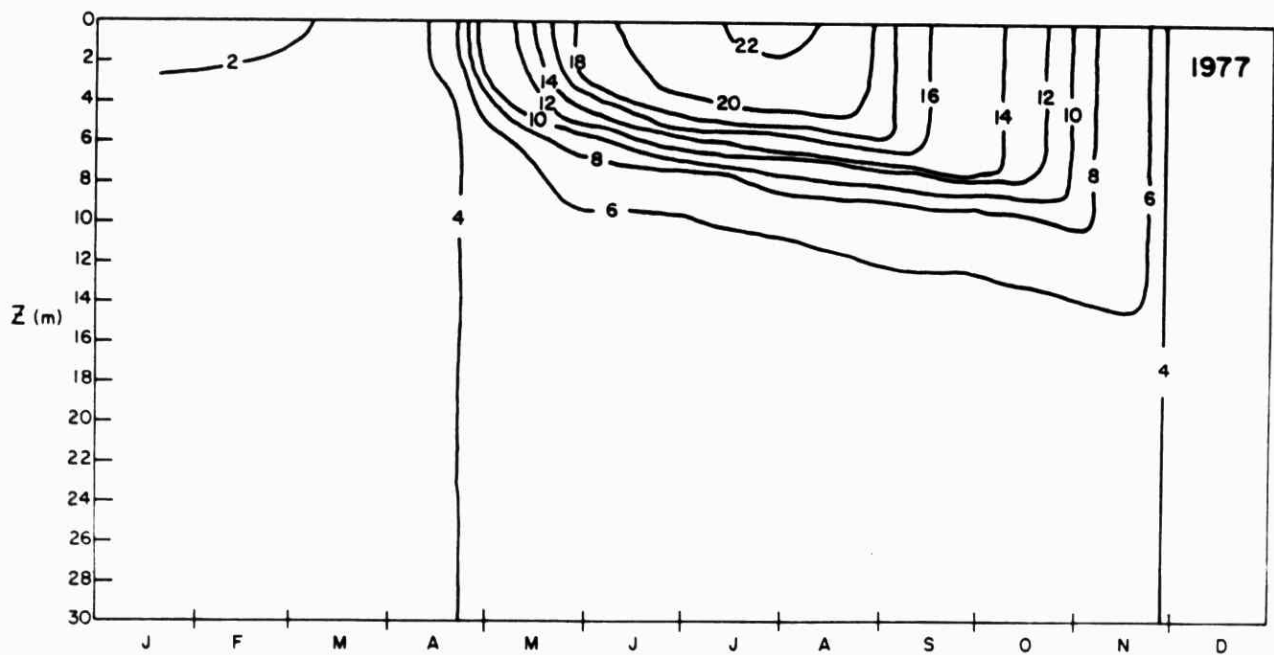
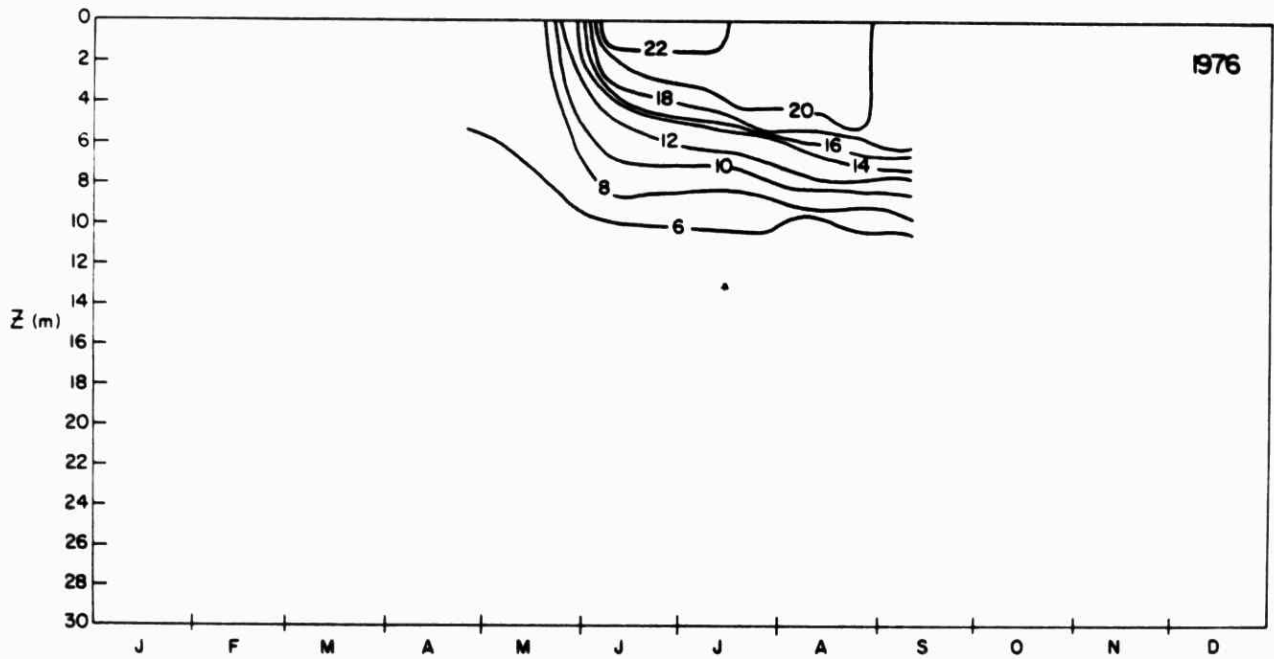


FIGURE 33

BUCK LAKE TEMPERATURE (°C)

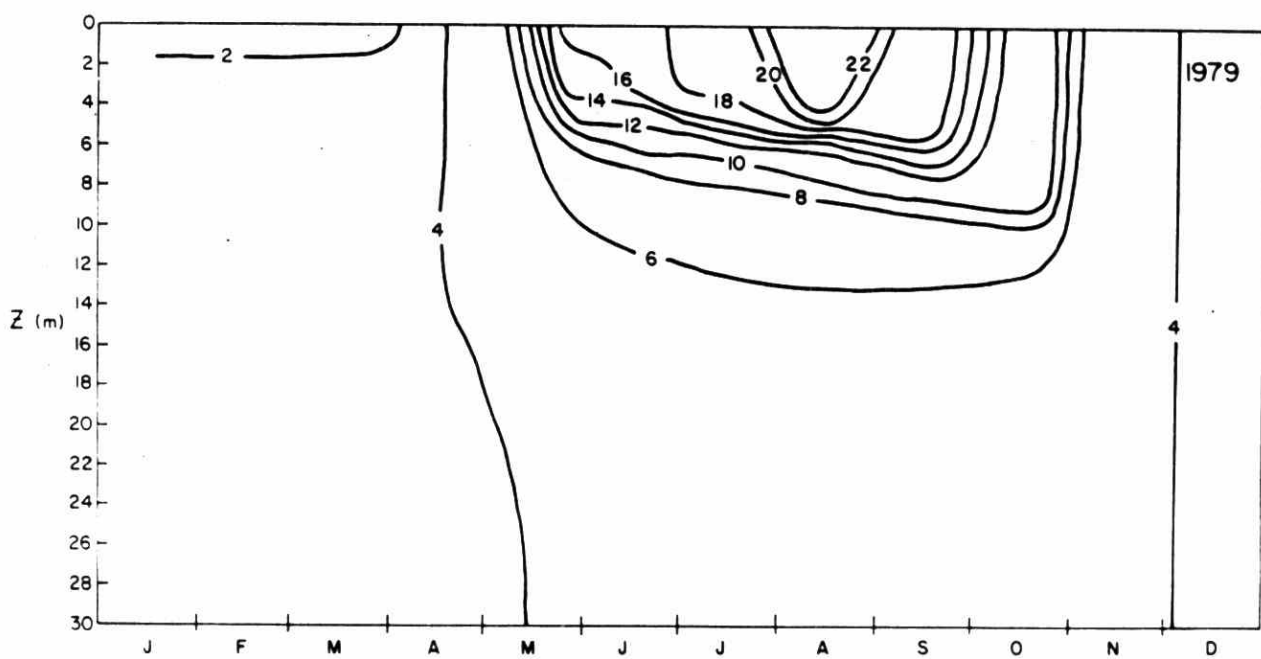
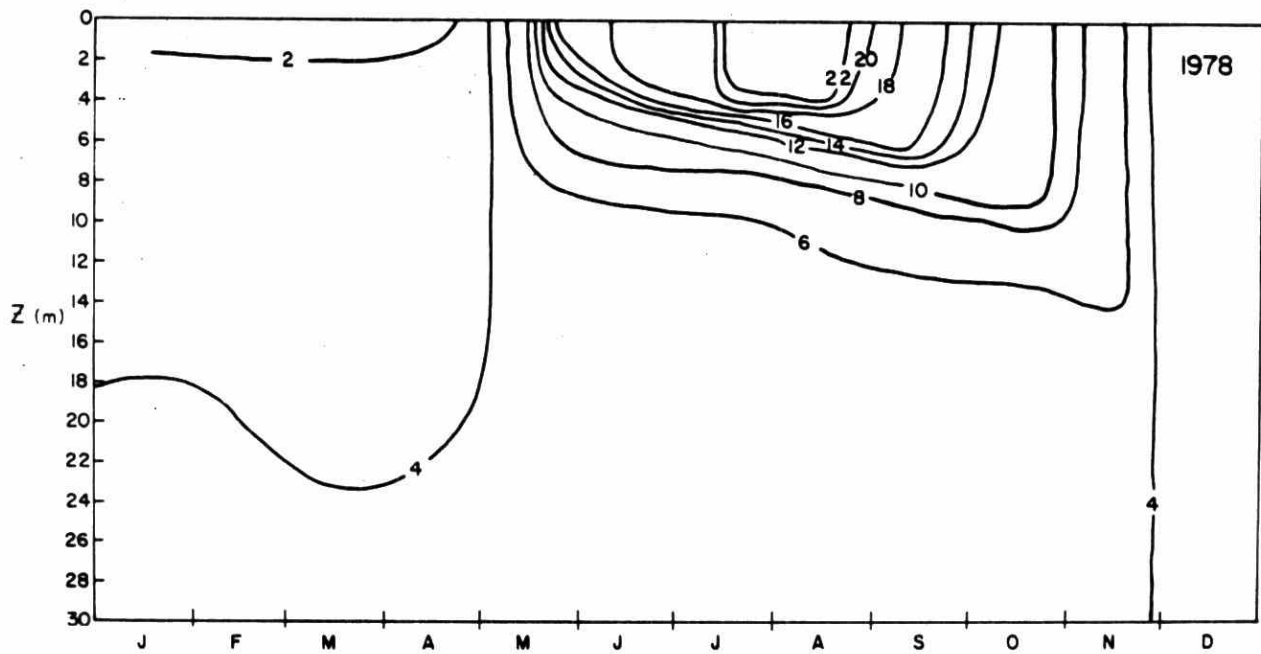


FIGURE 34

BUCK LAKE TEMPERATURE ($^{\circ}\text{C}$)

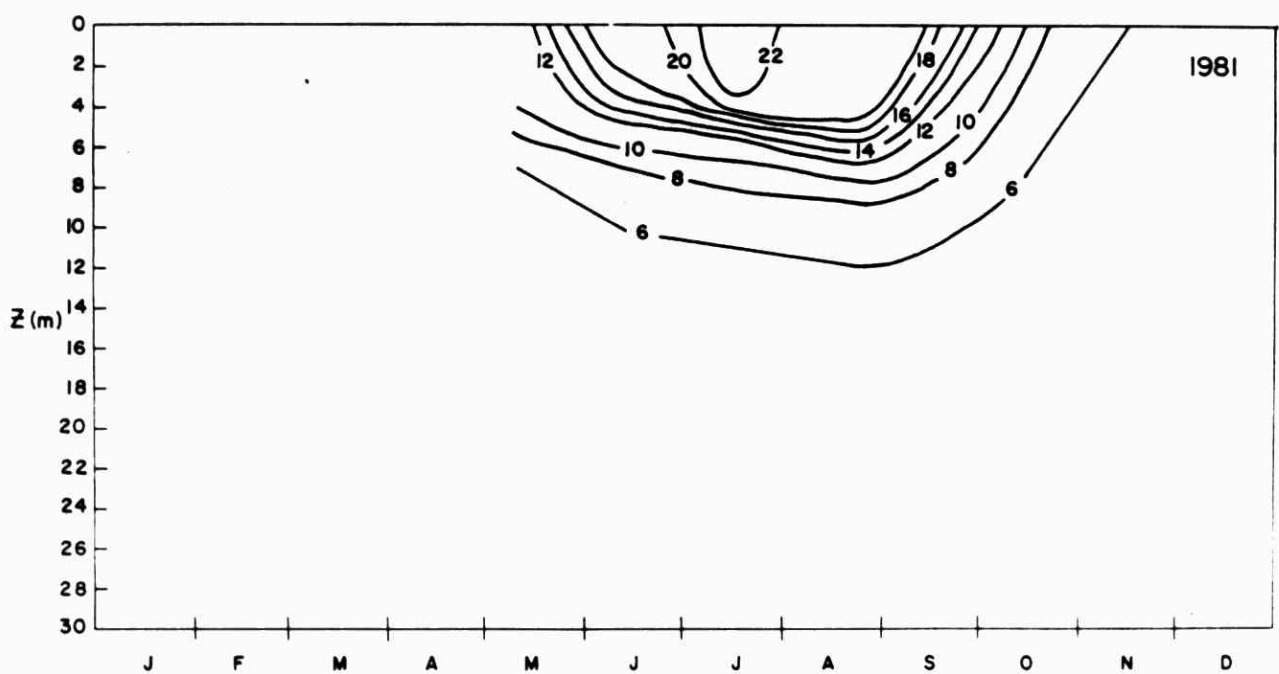
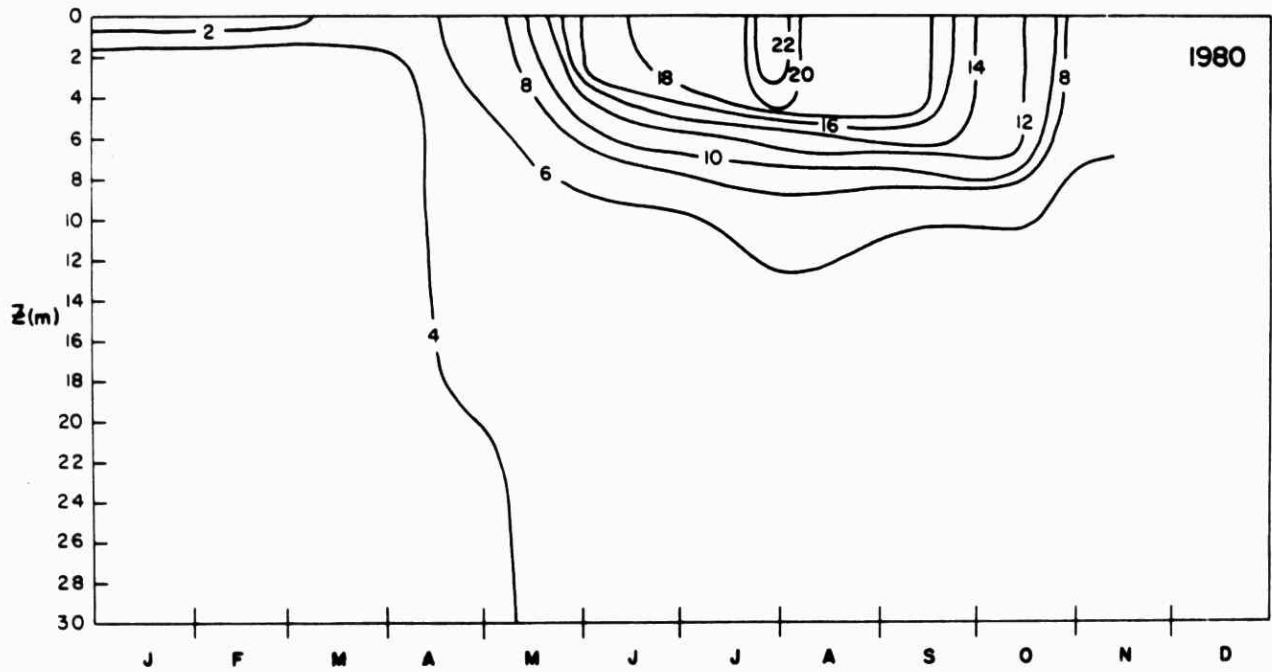


FIGURE 35

CROSSON LAKE TEMPERATURE ($^{\circ}\text{C}$)

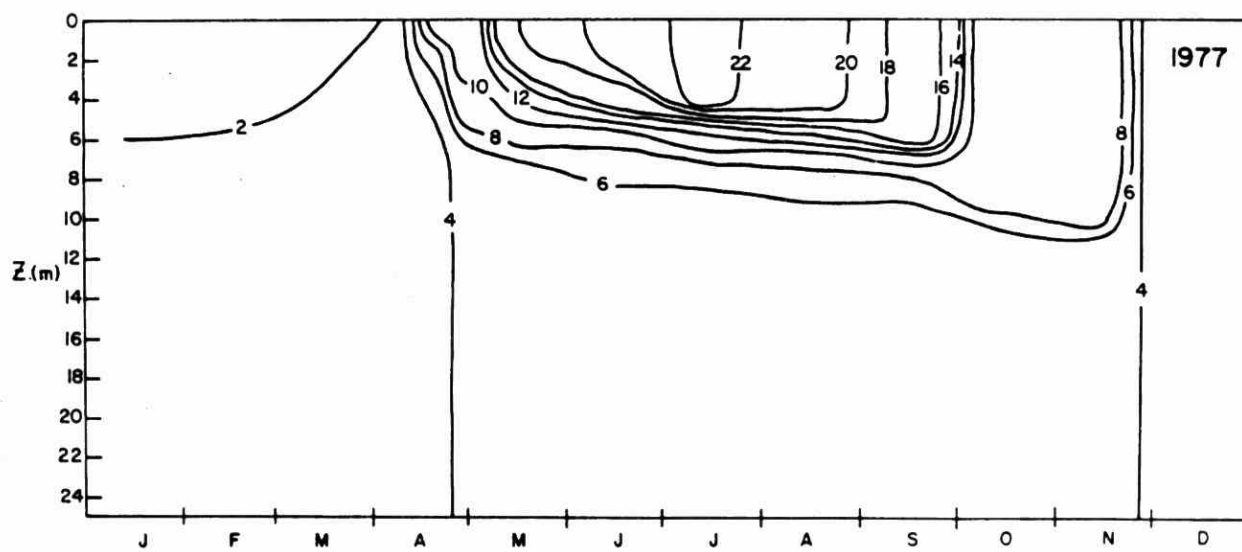
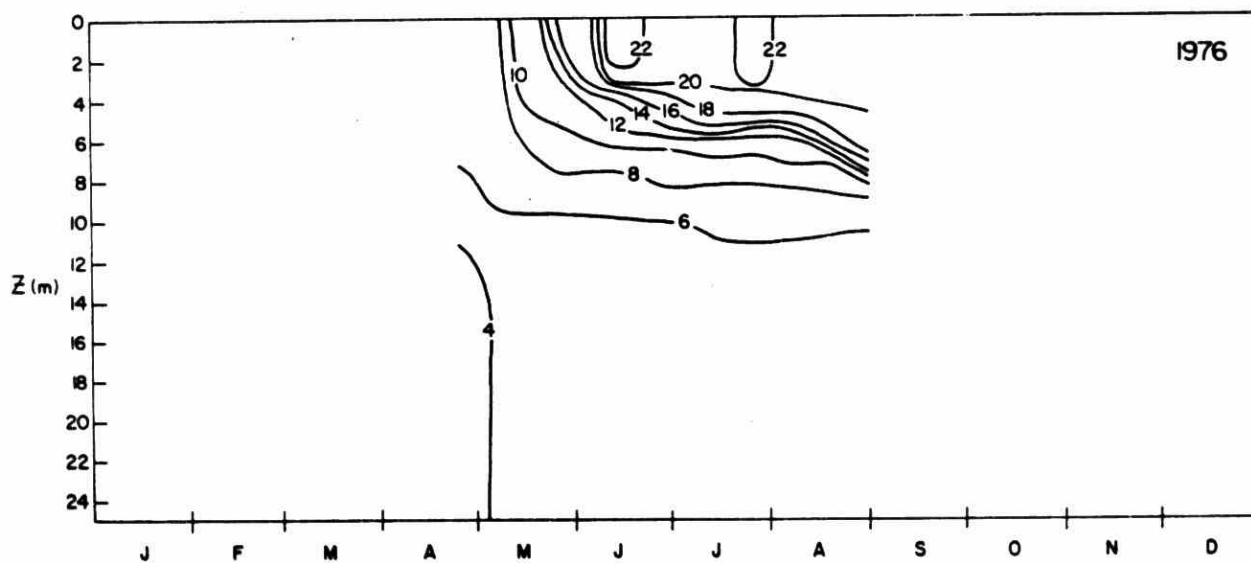


FIGURE 36

CROSSON LAKE TEMPERATURE (°C)

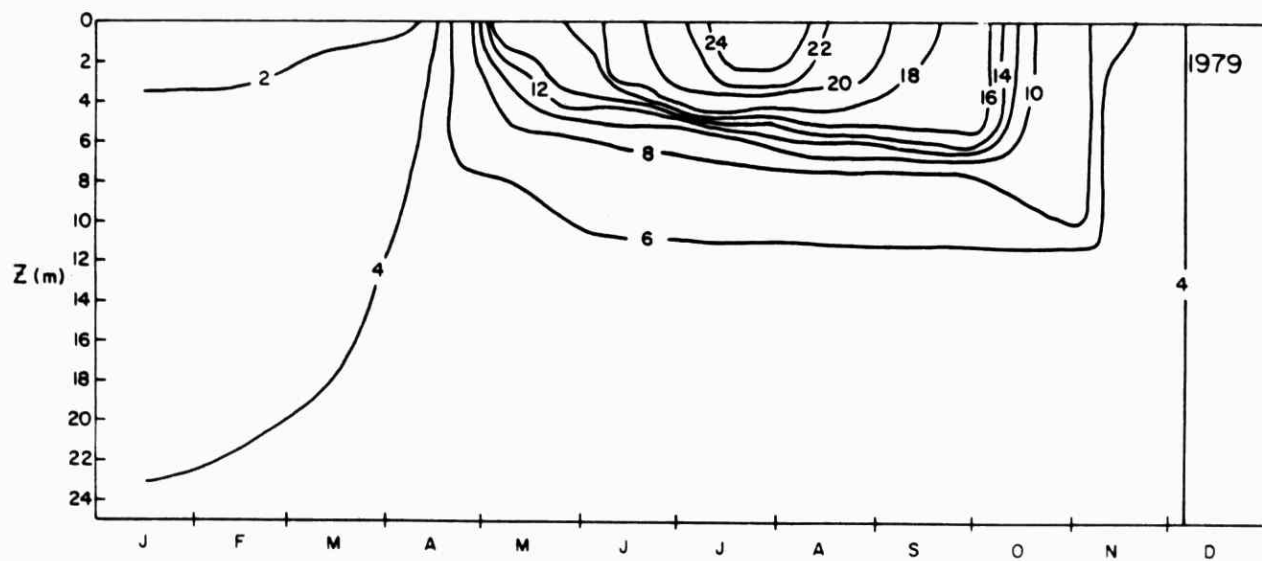
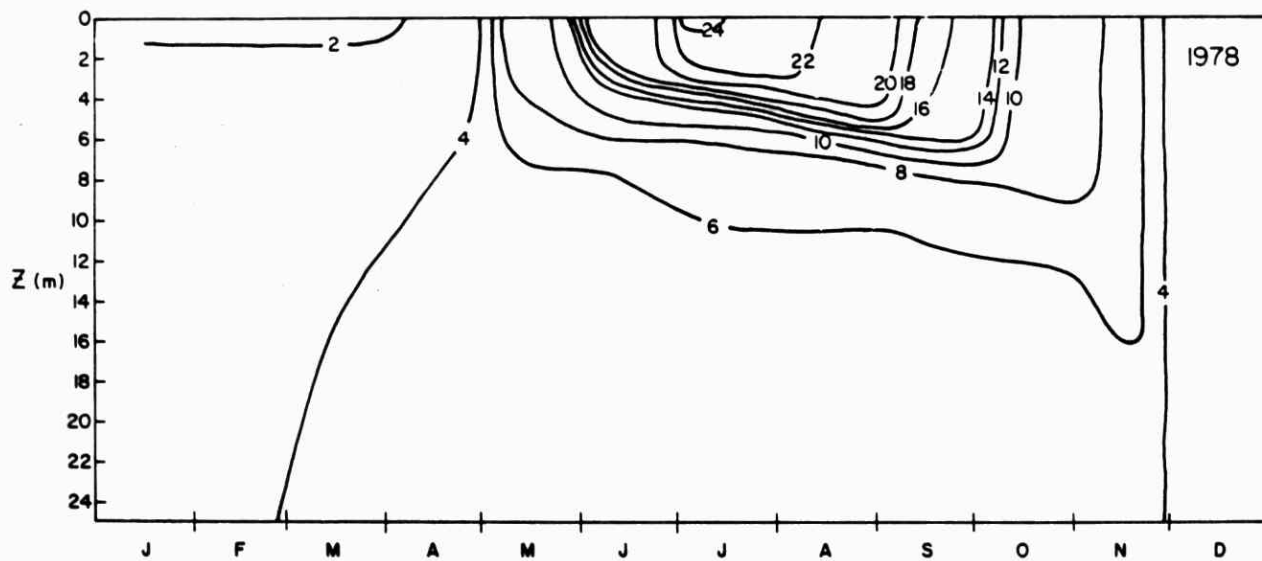


FIGURE 37

CROSSON LAKE TEMPERATURE (°C)

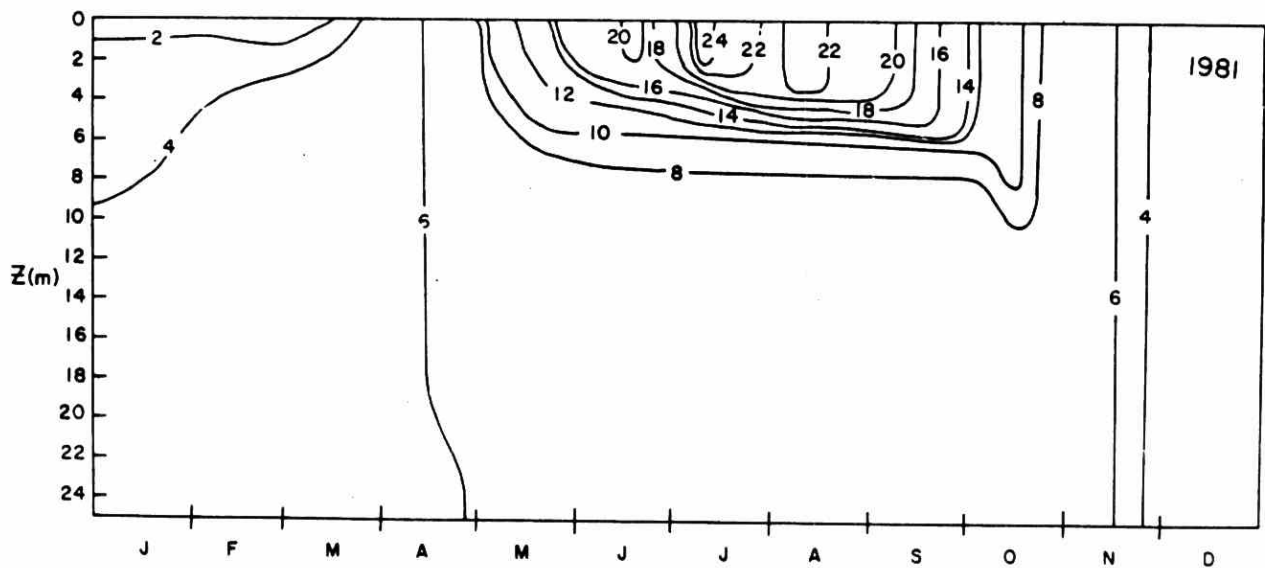
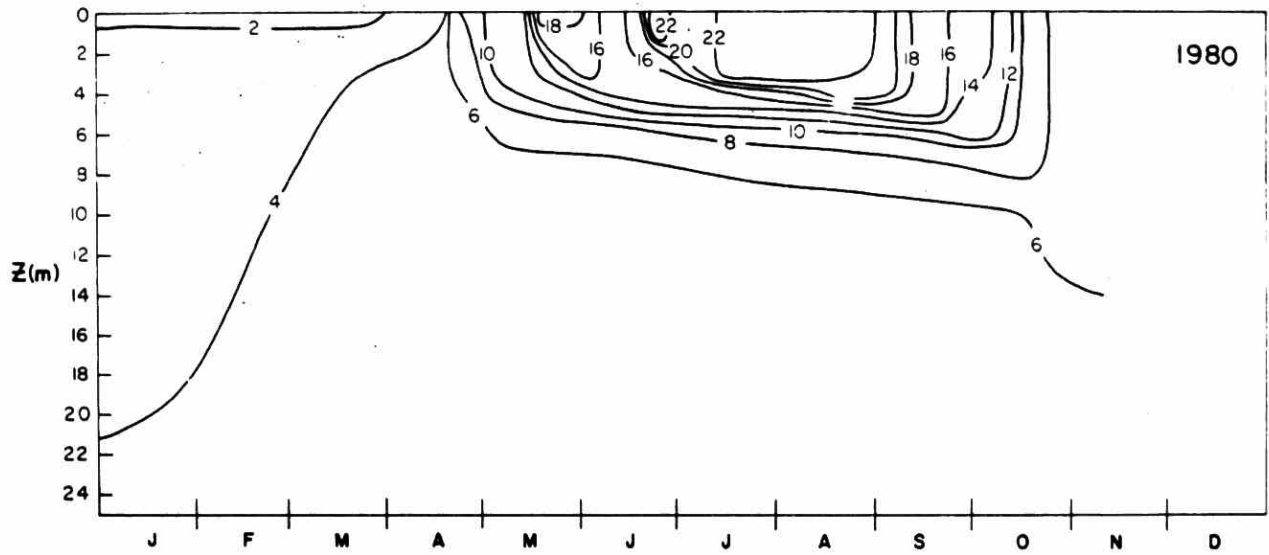




FIGURE 39

GLEN LAKE TEMPERATURE (°C)

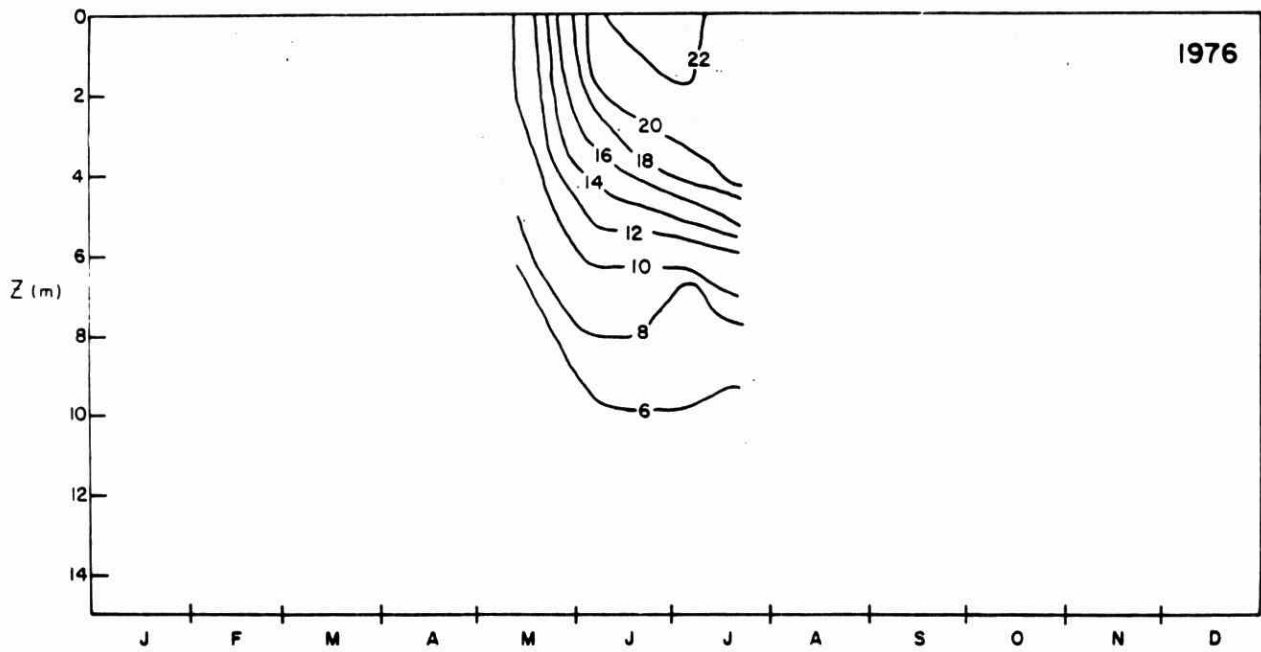


FIGURE 40

GLEN LAKE TEMPERATURE (°C)

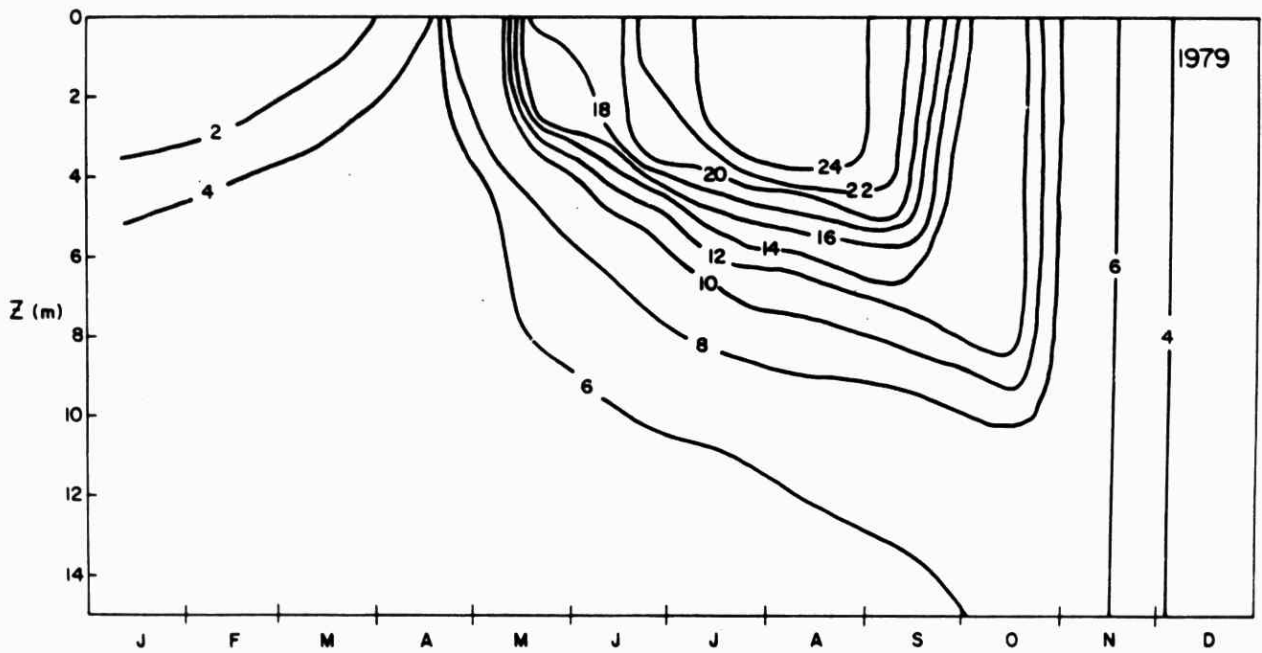
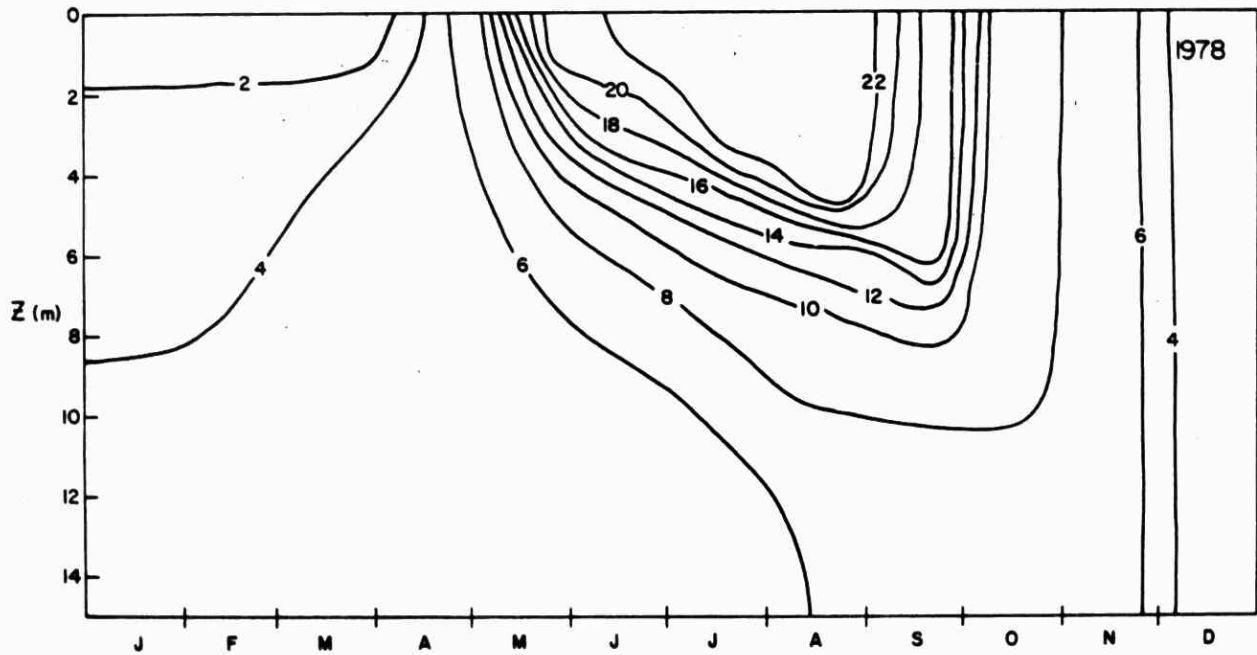


FIGURE 41

GLEN LAKE TEMPERATURE (°C)

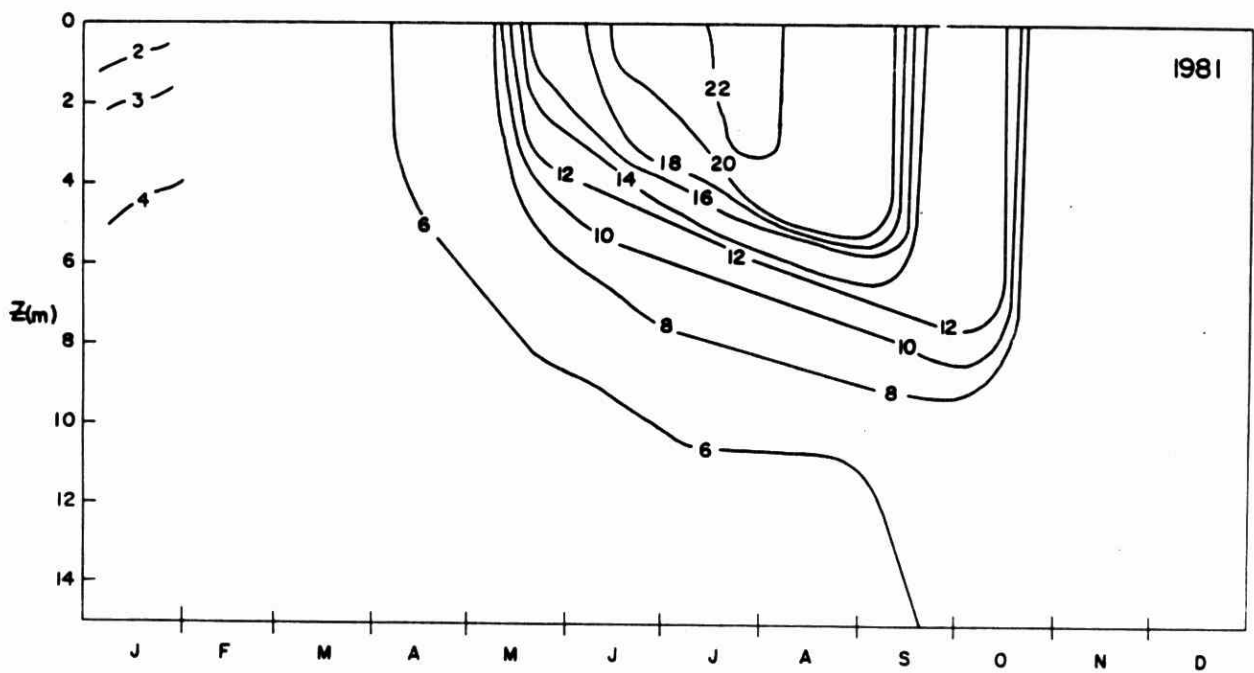
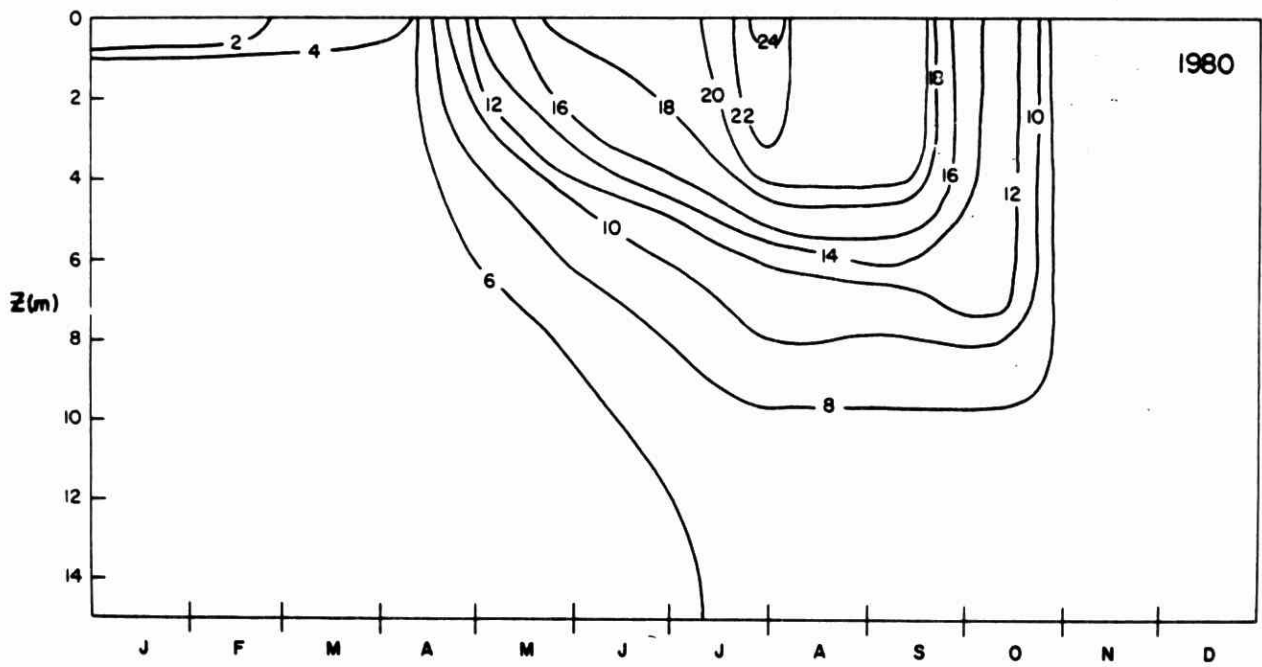


FIGURE 42

GULLFEATHER LAKE

TEMPERATURE (°C)

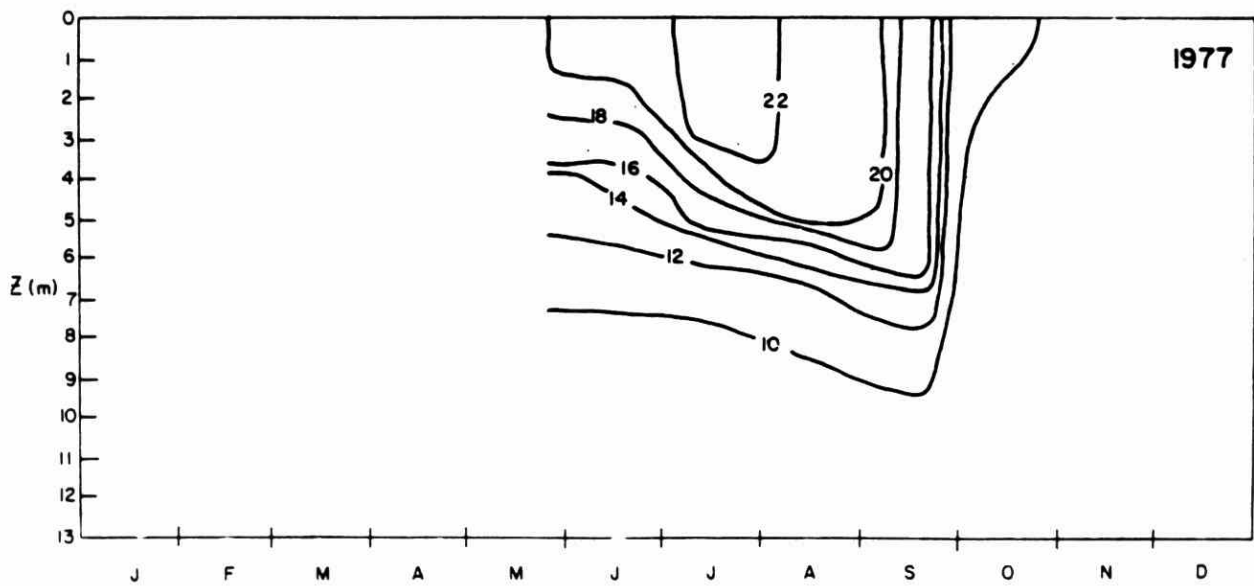
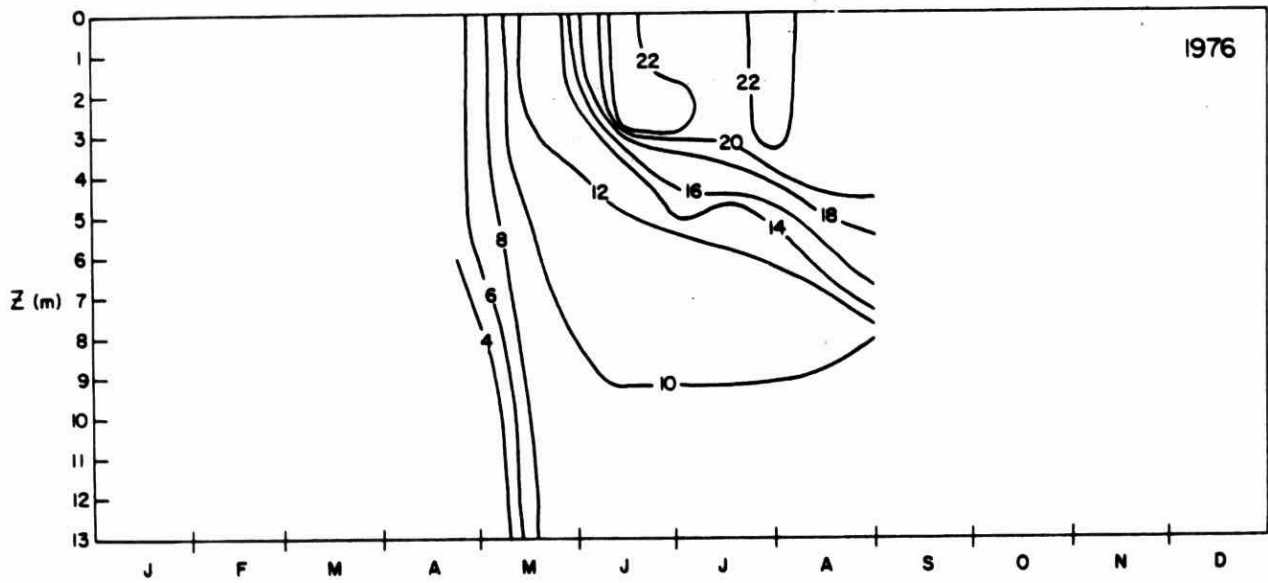


FIGURE 43

GULLFEATHER LAKE

TEMPERATURE (°C)

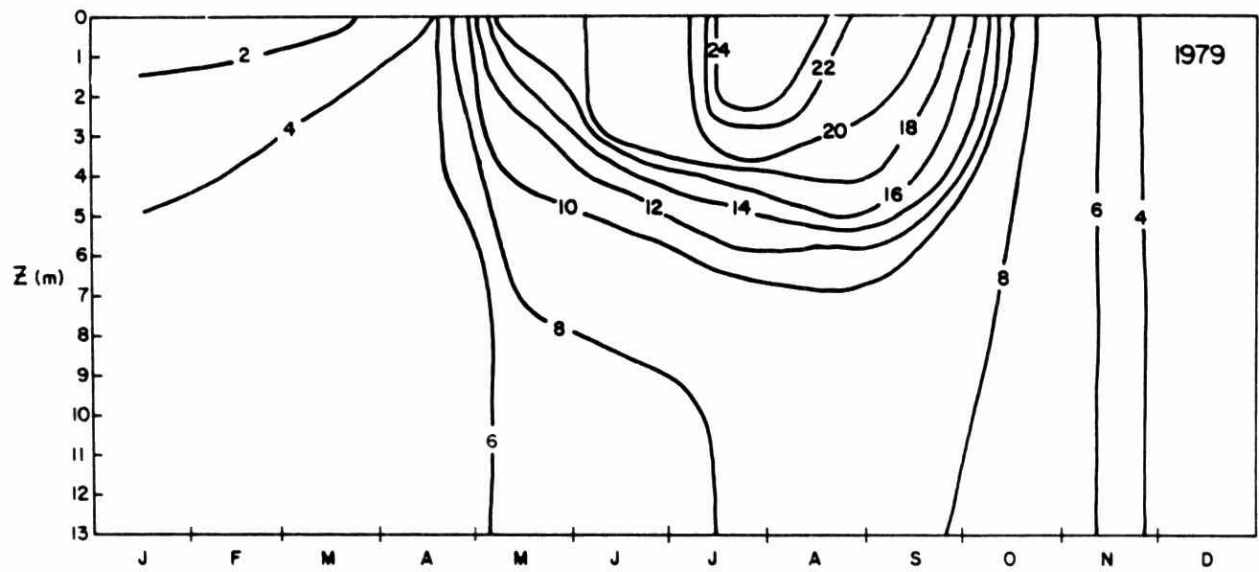
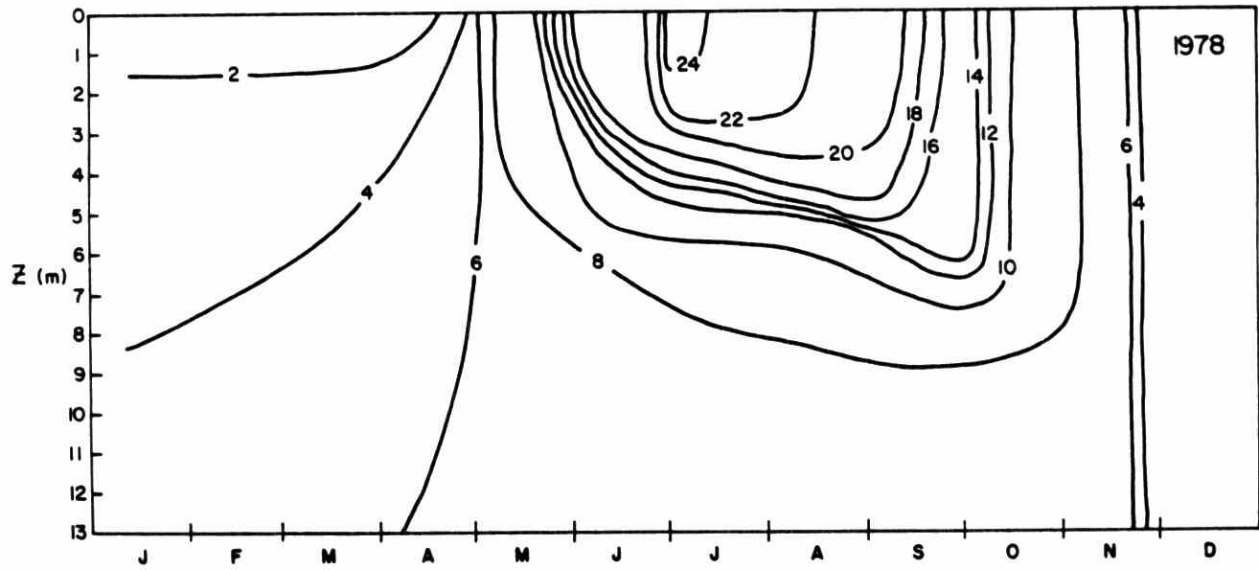


FIGURE 44

GULLFEATHER LAKE

TEMPERATURE (°C)

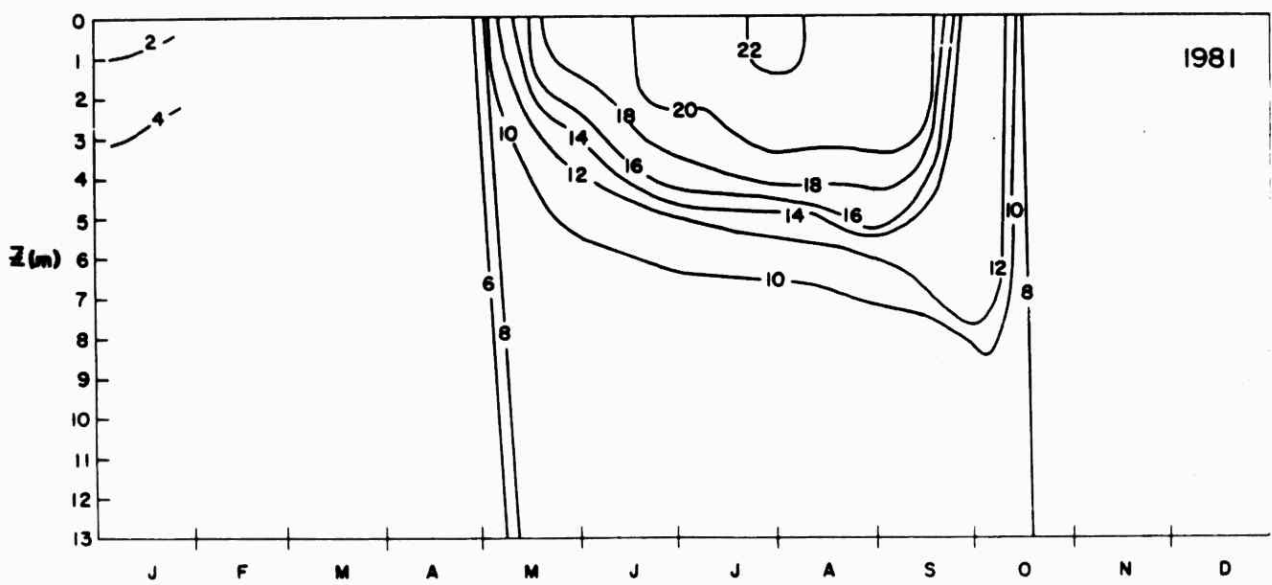
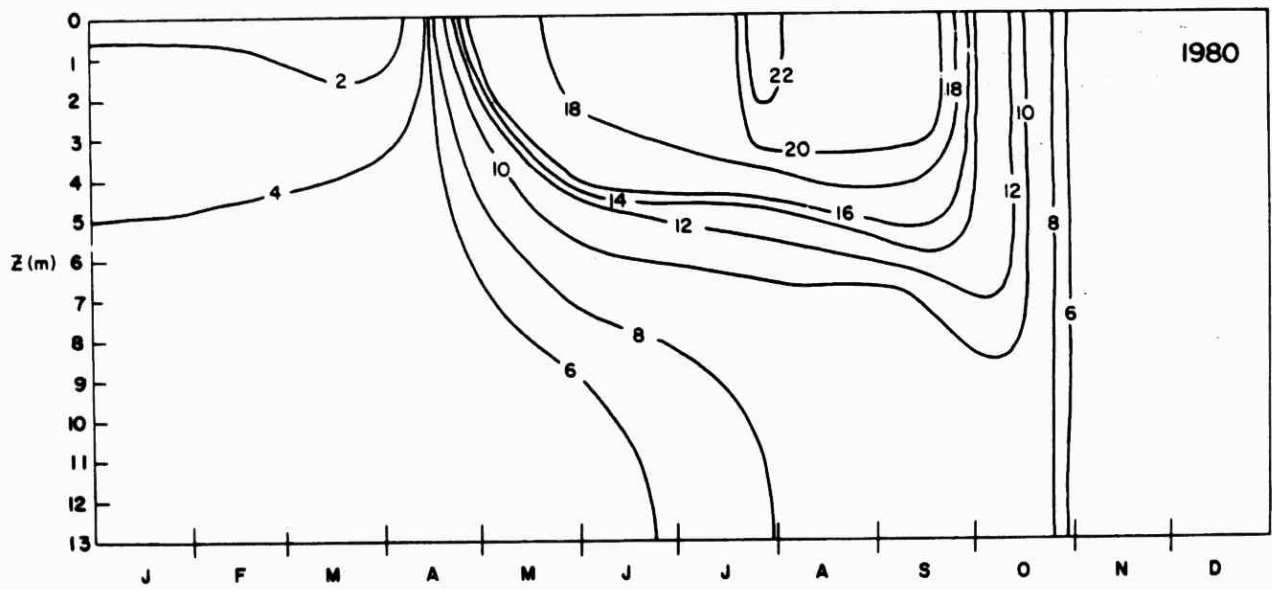


FIGURE 45

LITTLE CLEAR LAKE TEMPERATURE (°C)

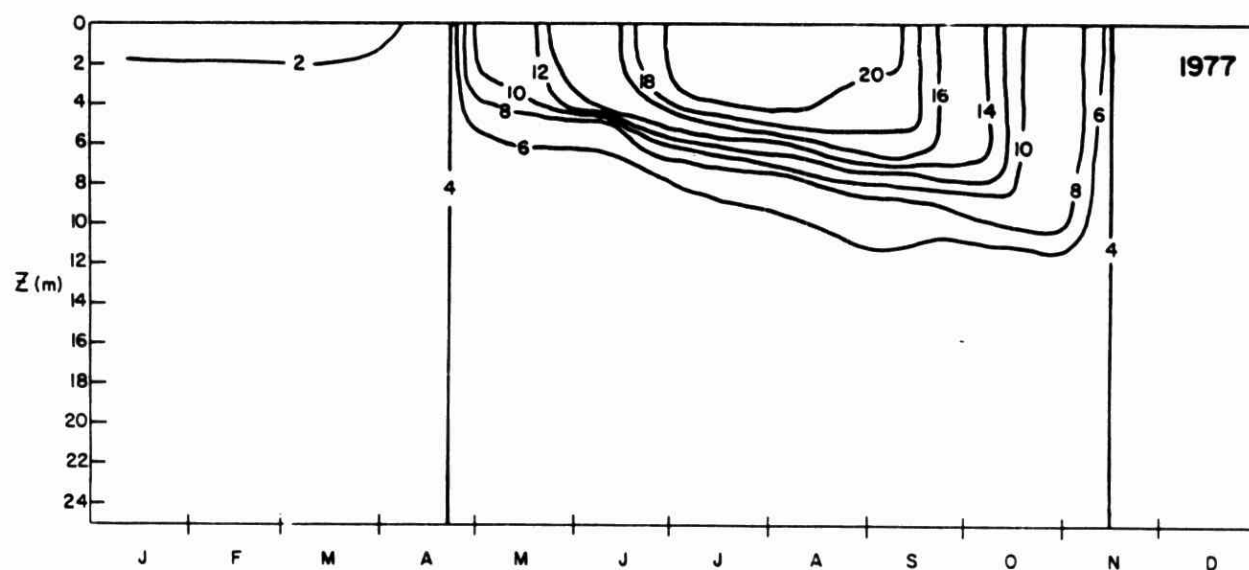
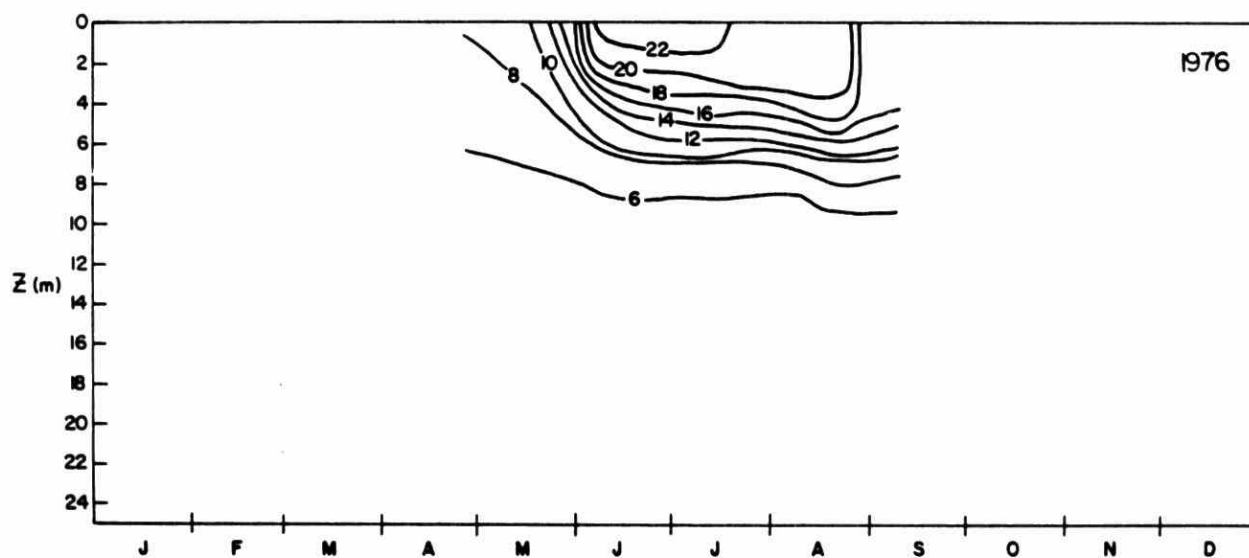


FIGURE 46

LITTLE CLEAR LAKE TEMPERATURE (°C)

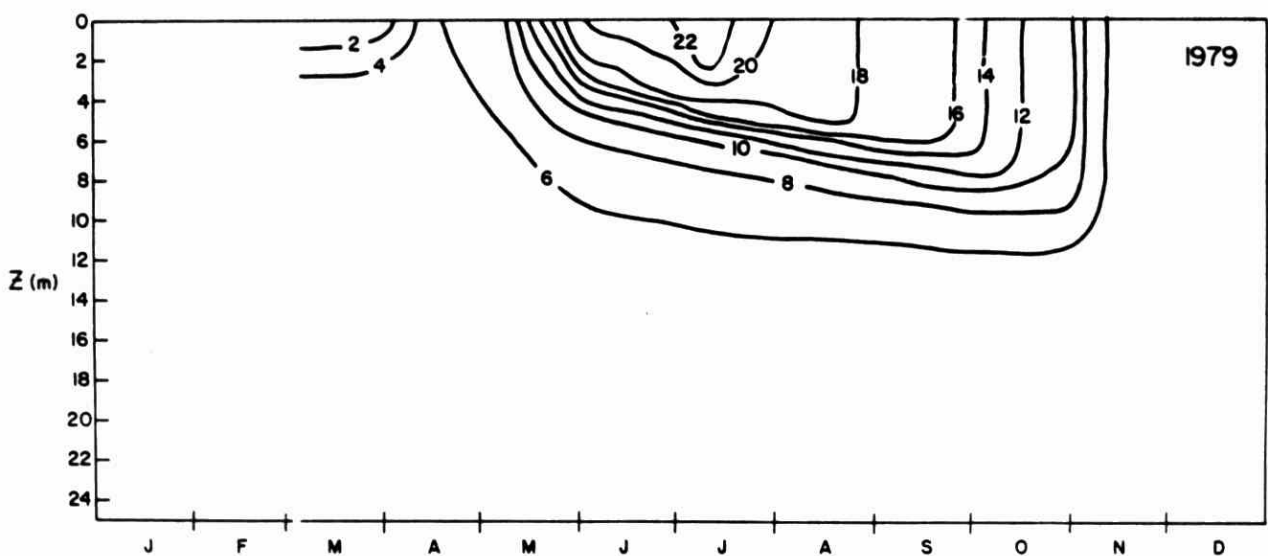
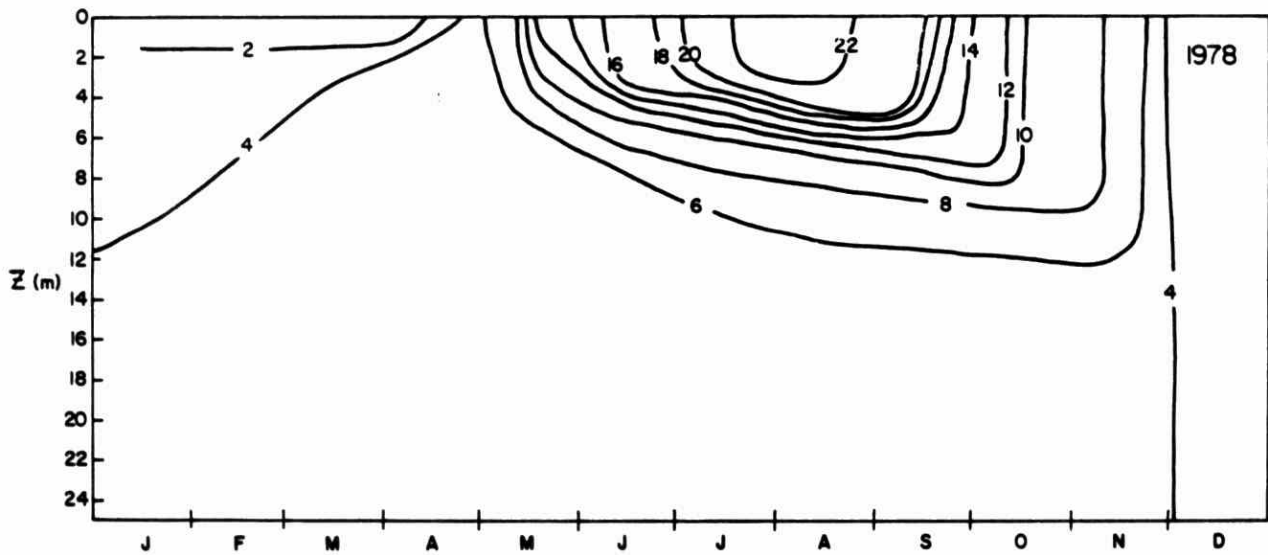
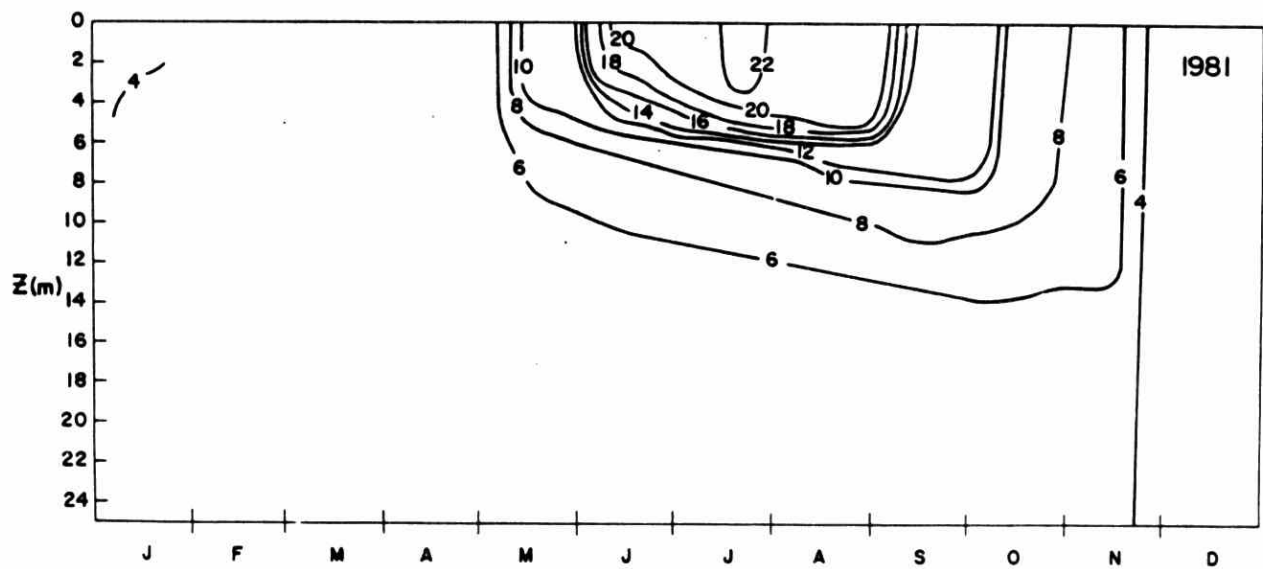
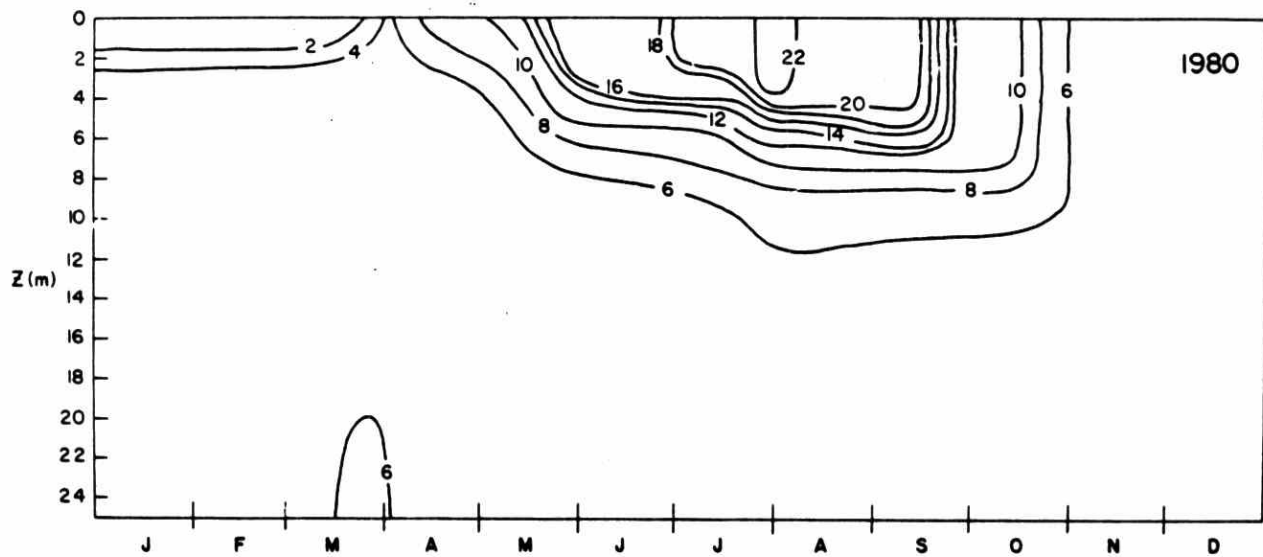


FIGURE 47

LITTLE CLEAR LAKE TEMPERATURE (°C)



TEMPERATURE (°C)

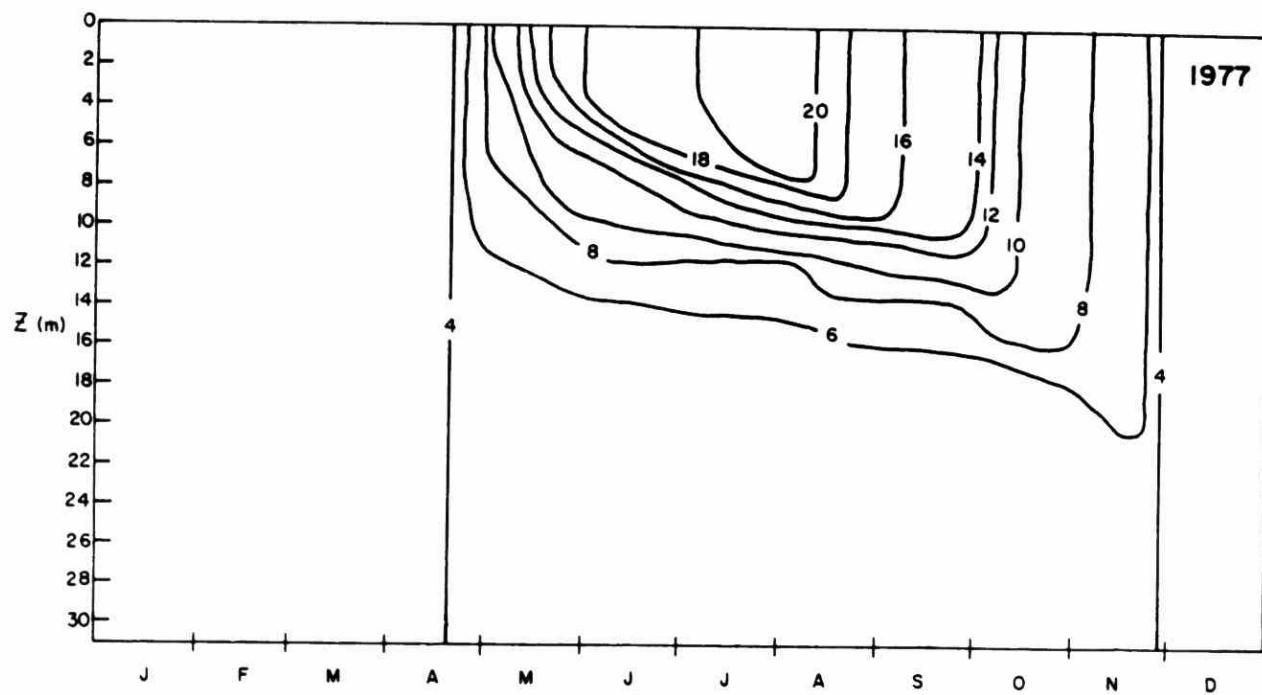


FIGURE 49

SOLITAIRE LAKE

TEMPERATURE (°C)

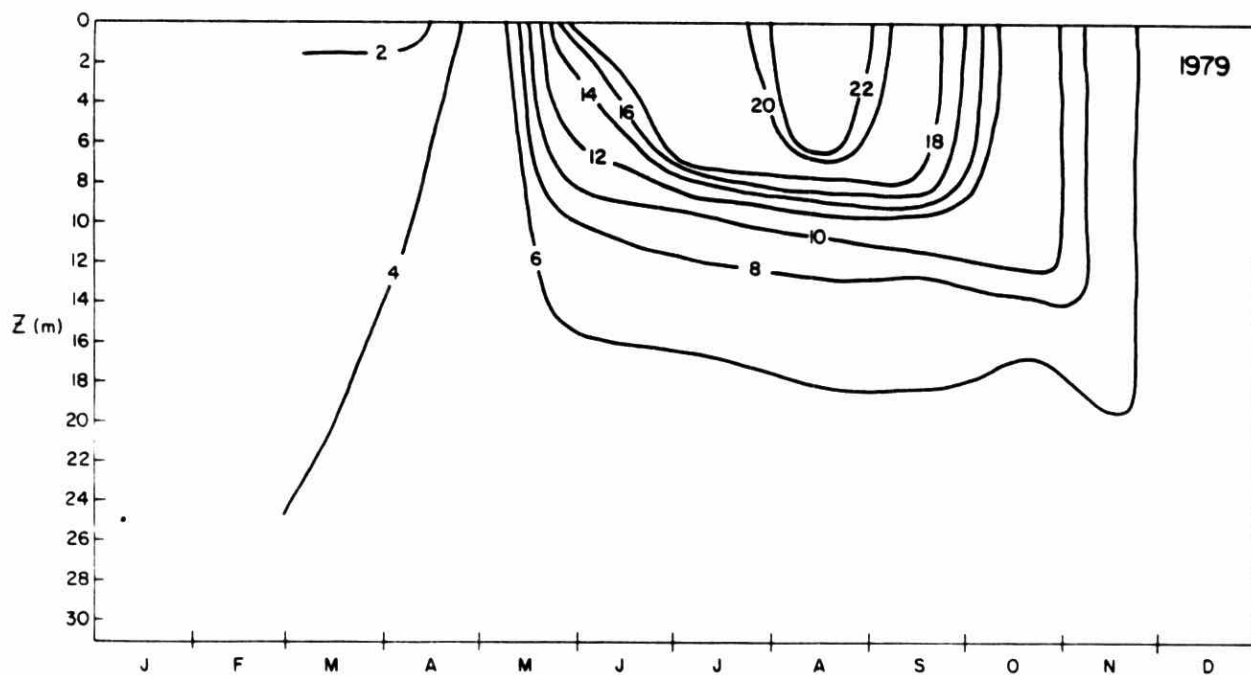
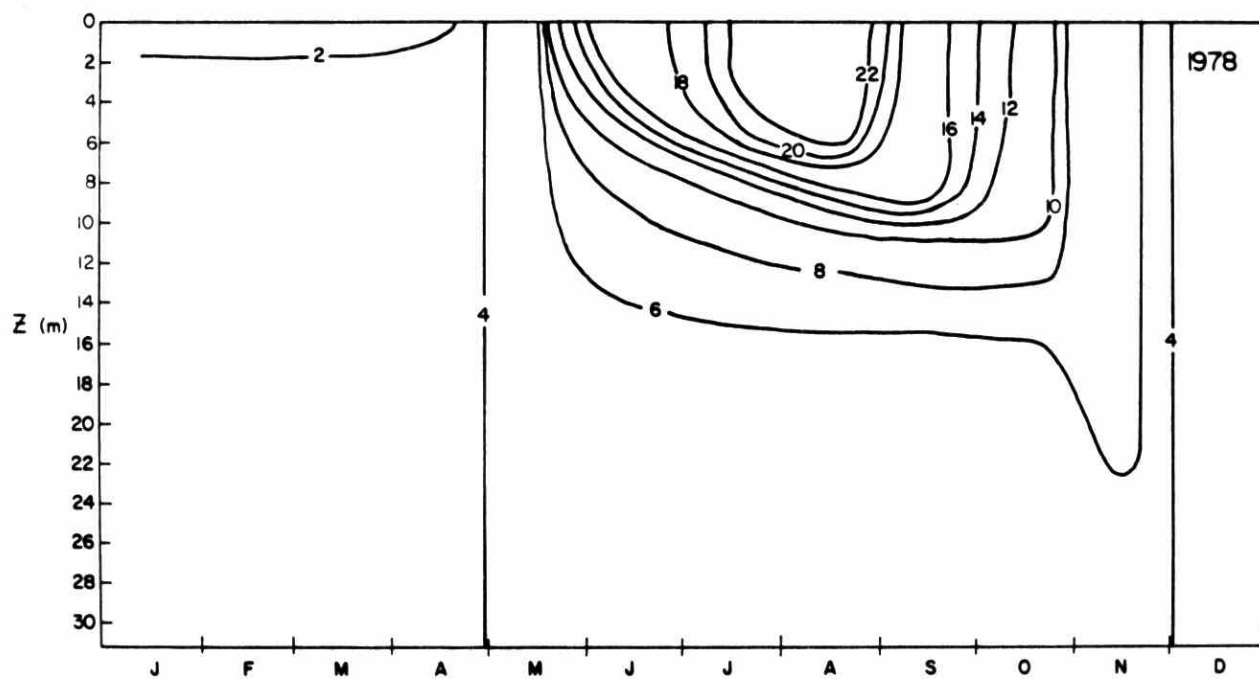


FIGURE 50

SOLITAIRE LAKE

TEMPERATURE (°C)

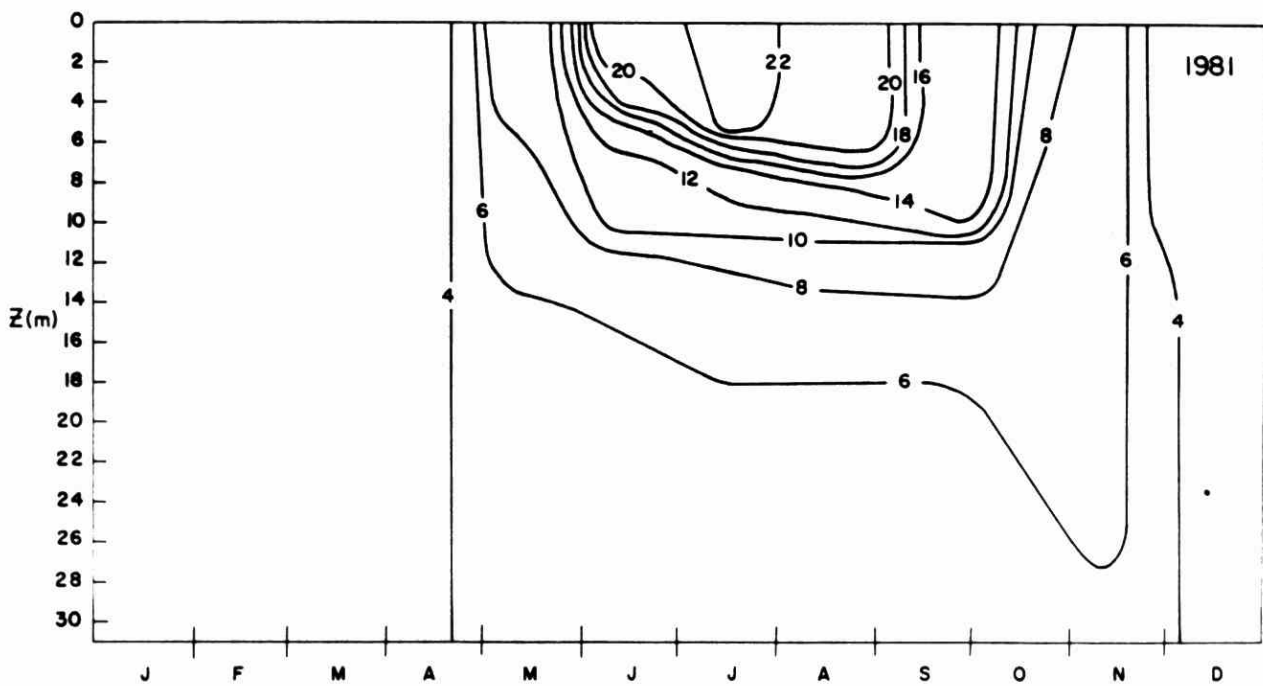
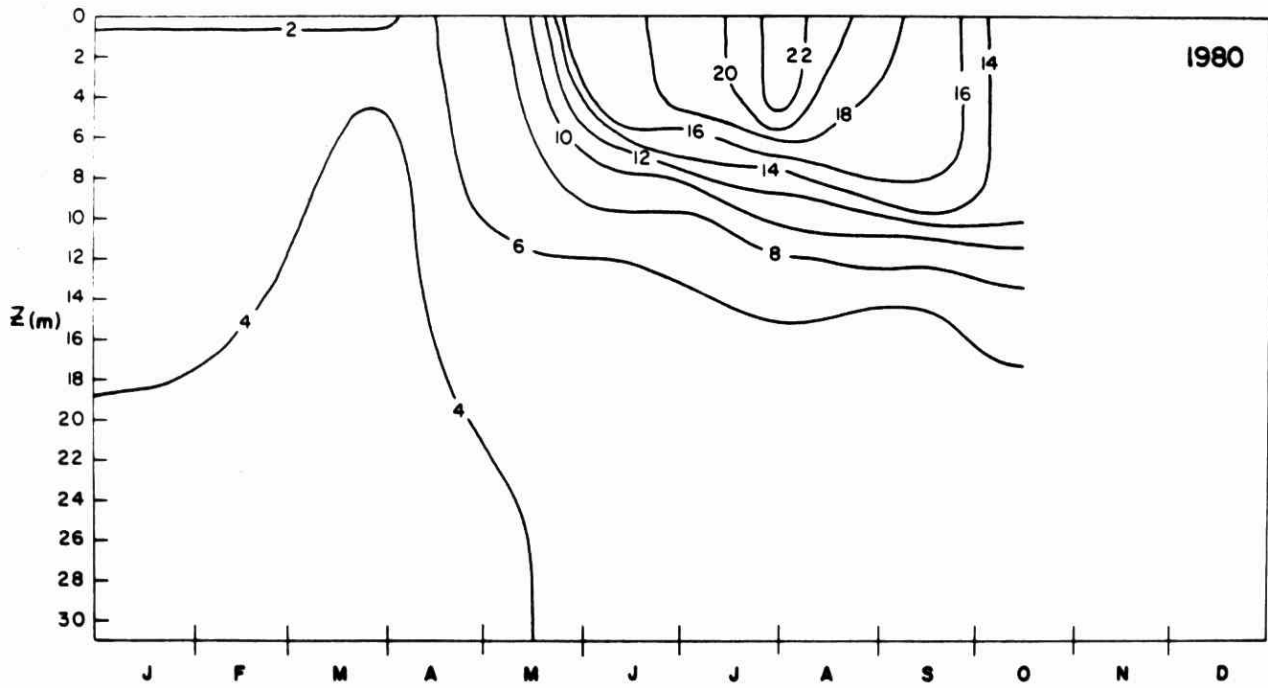


FIGURE 51

WALKER LAKE

TEMPERATURE (°C)

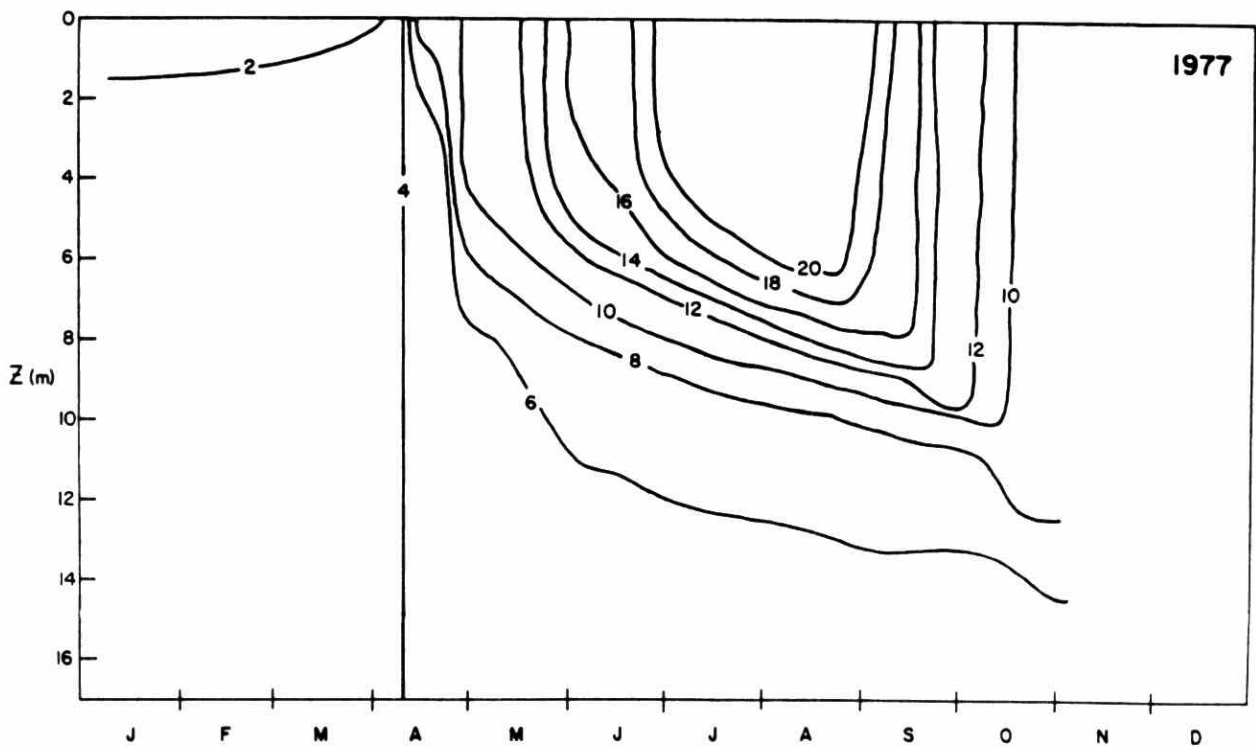
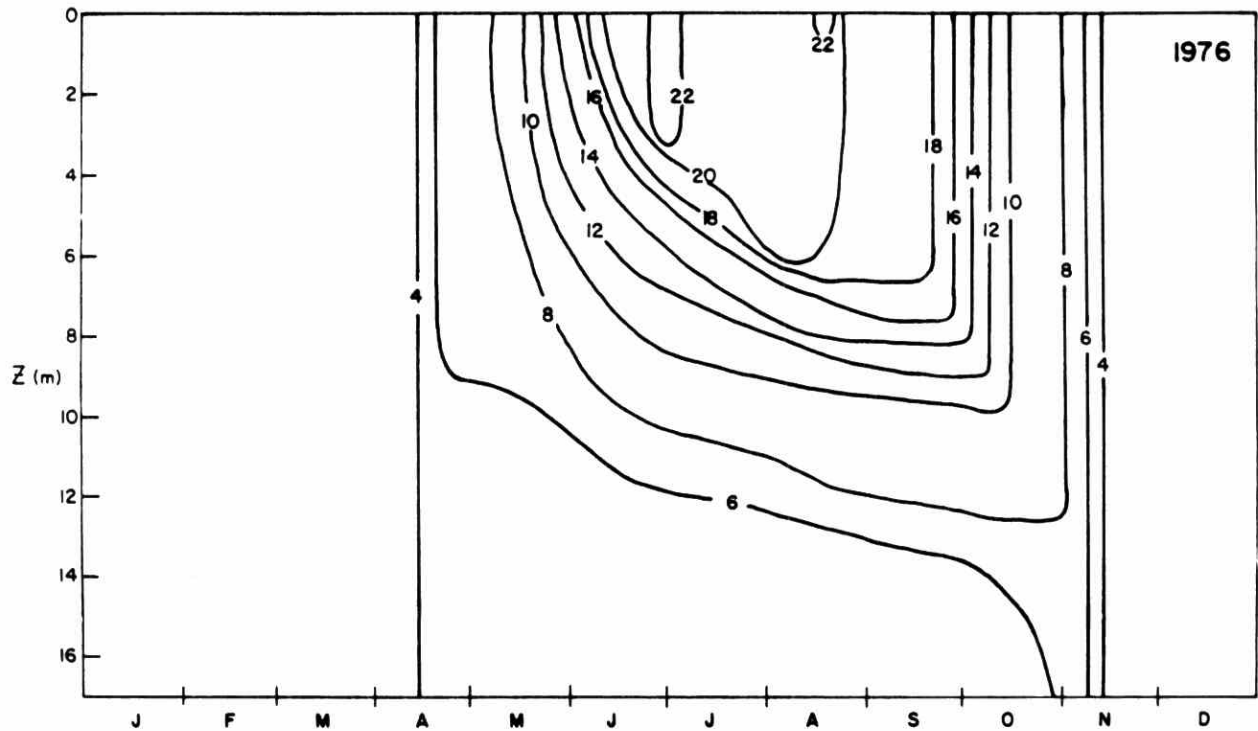


FIGURE 52

WALKER LAKE

TEMPERATURE (°C)

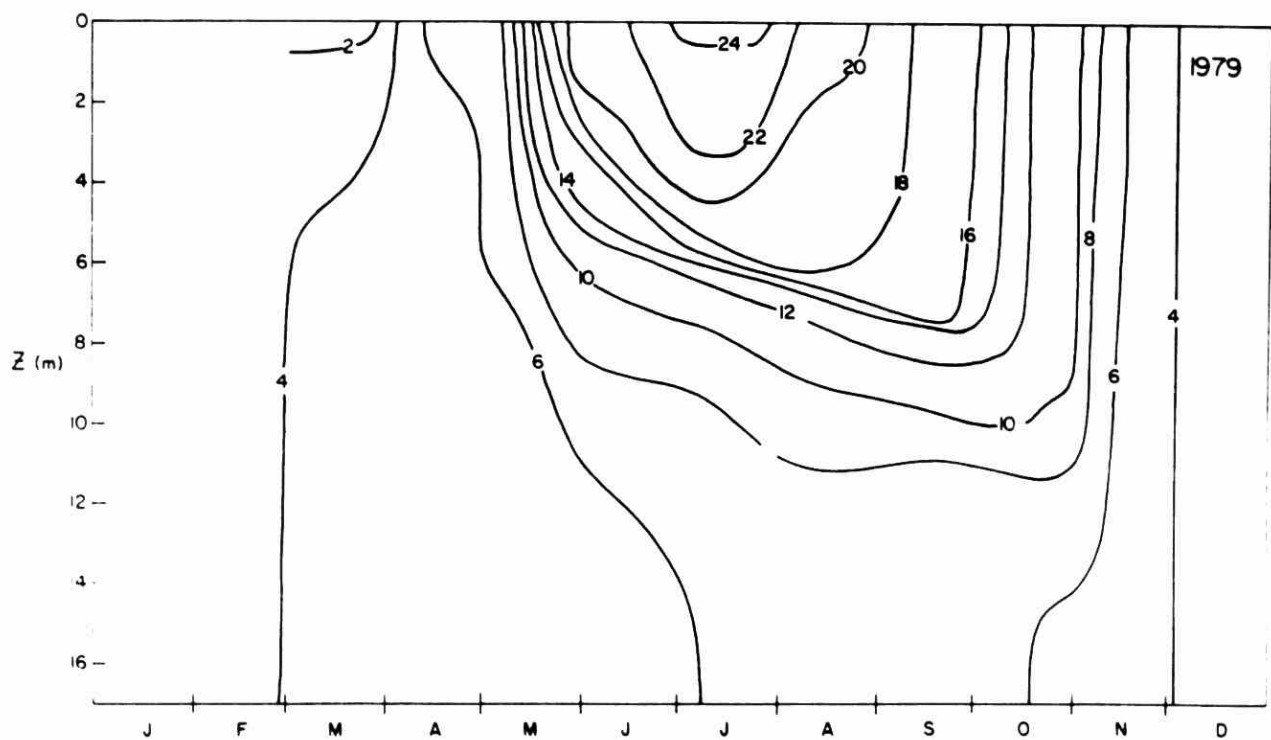
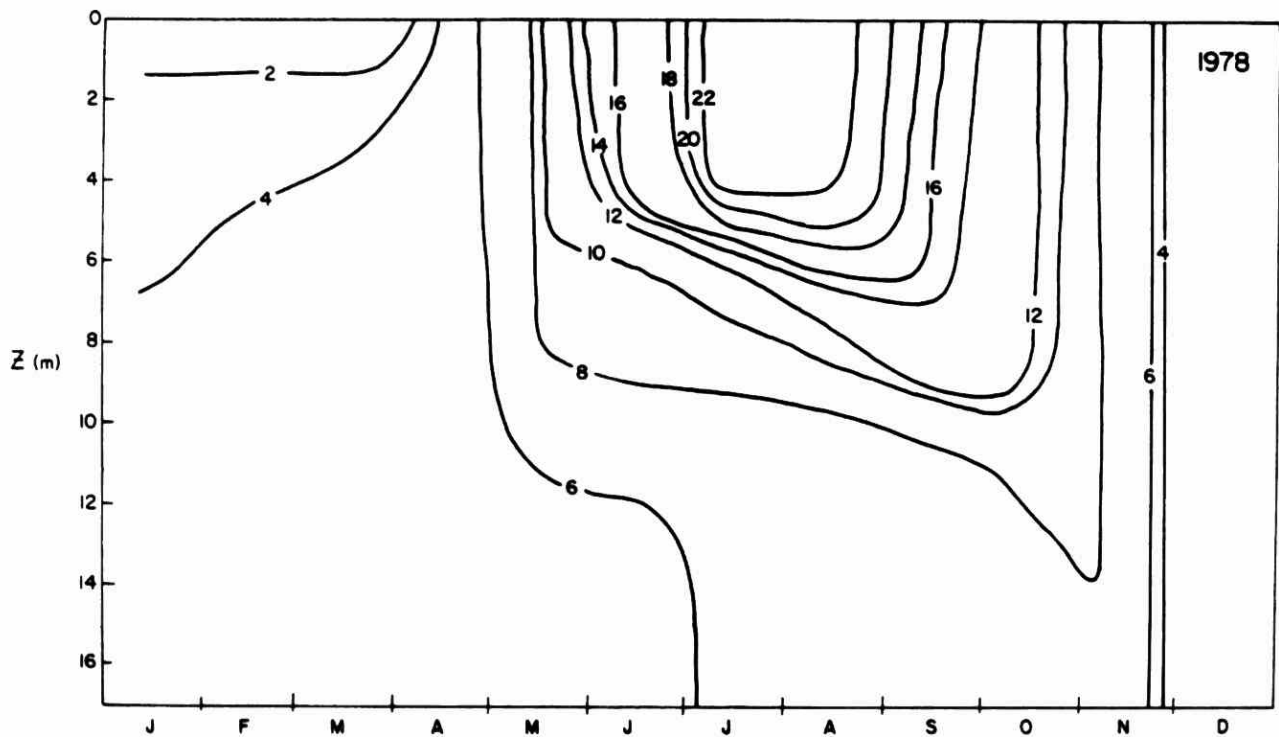


FIGURE 53

WALKER LAKE

TEMPERATURE (°C)

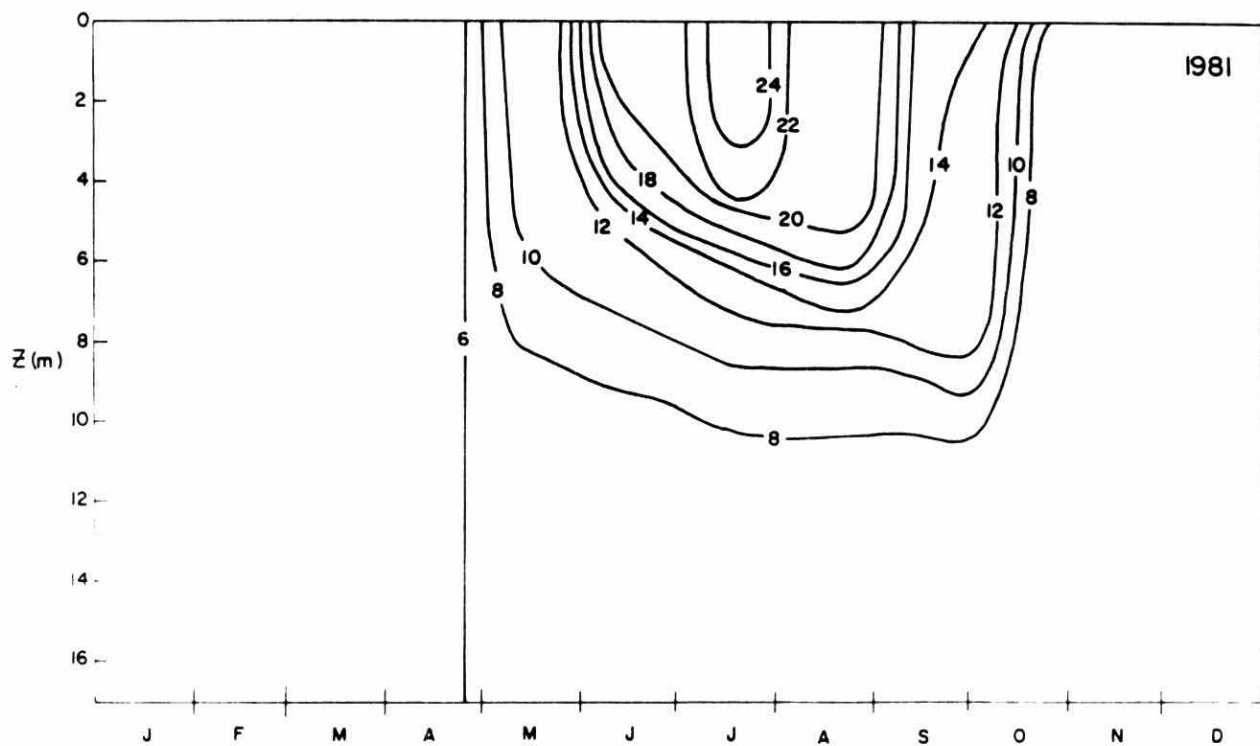
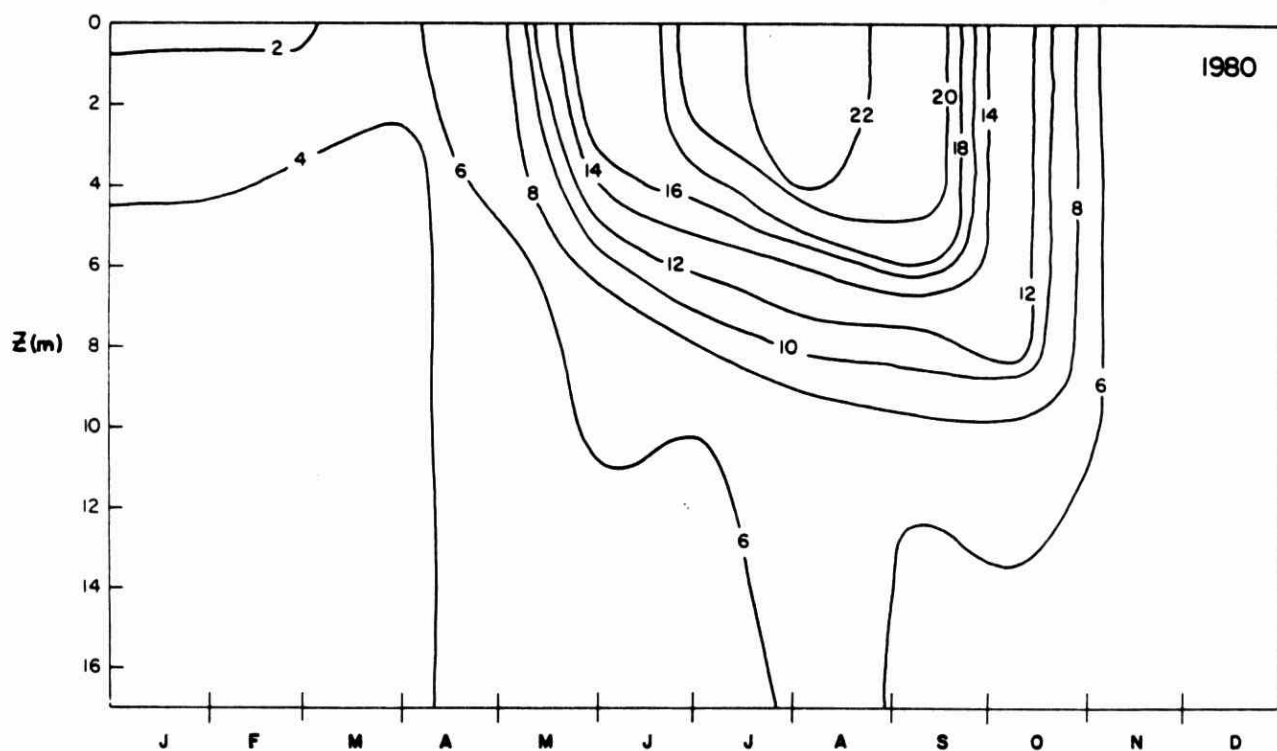


FIGURE 54

HENEY LAKE

TEMPERATURE (°C)

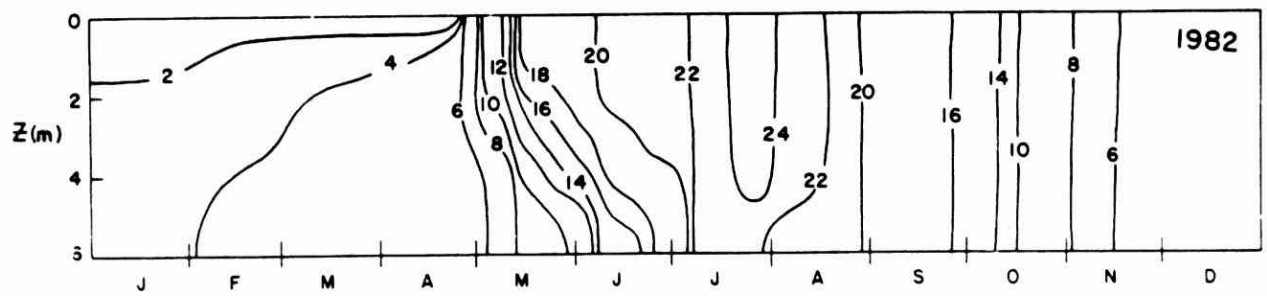
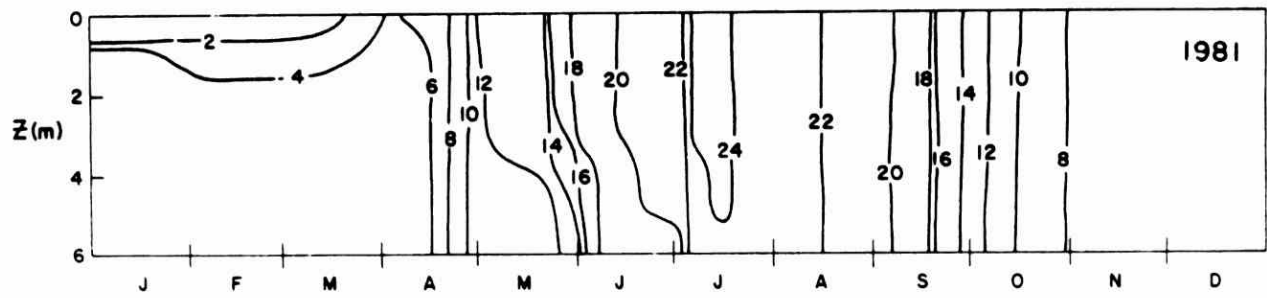
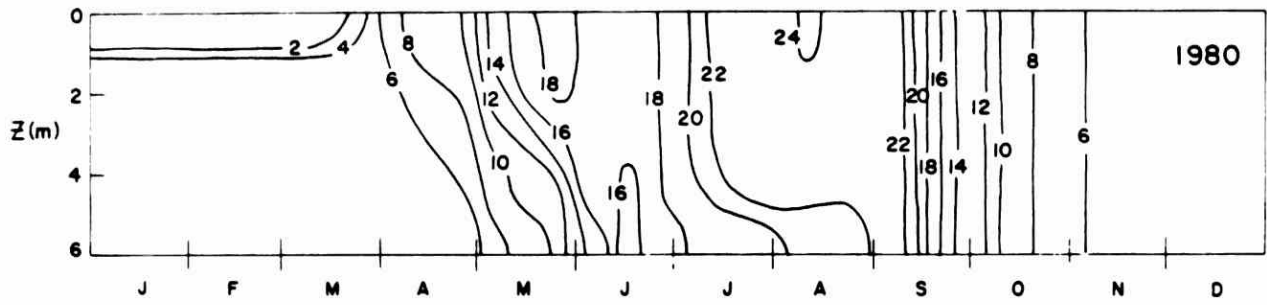
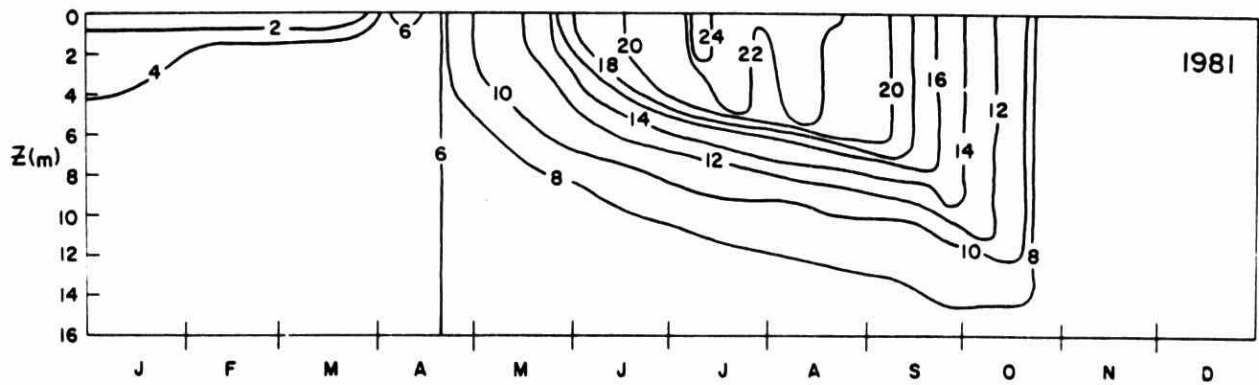
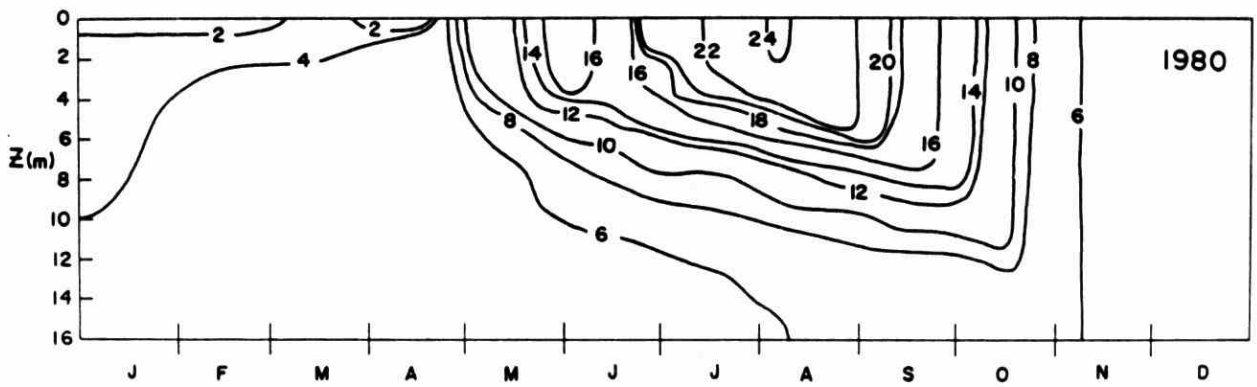
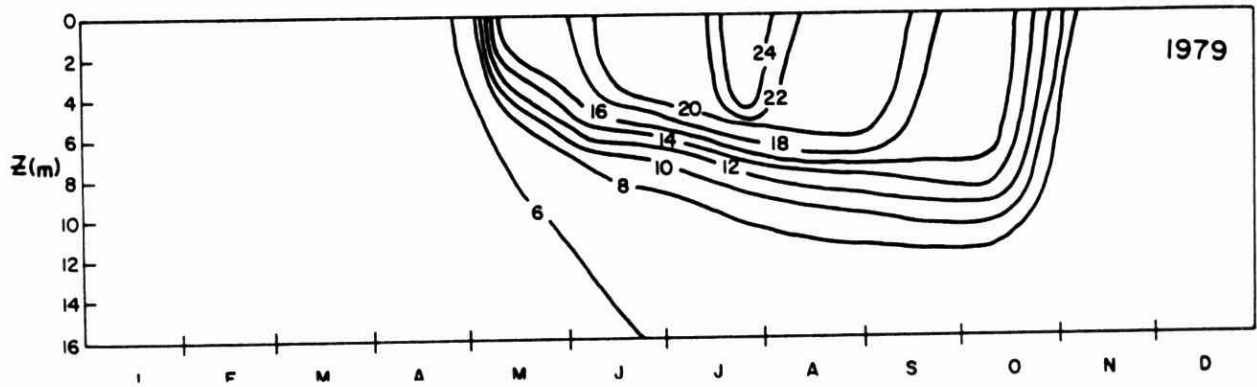


FIGURE 55

PLASTIC LAKE TEMPERATURE (°C)



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